MongoTest 22BCE10375

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```
db.sales.insertMany([
{ "_id" : 1, "item" : "Americanos", "price" : 5, "size": "Short", "quantity" : 22, "date" :
ISODate("2022-01-15T08:00:00Z") },
{ " id" : 2, "item" : "Cappuccino", "price" : 6, "size": "Short", "quantity" : 12, "date" :
ISODate("2022-01-16T09:00:00Z") },
{ " id" : 3, "item" : "Lattes", "price" : 15, "size": "Grande", "quantity" : 25, "date" :
ISODate("2022-01-16T09:05:00Z") },
{ "_id" : 4, "item" : "Mochas", "price" : 25, "size": "Tall", "quantity" : 11, "date" : ISODate("2022-
02-17T08:00:00Z")},
{ "_id" : 5, "item" : "Americanos", "price" : 10, "size": "Grande", "quantity" : 12, "date" :
ISODate("2022-02-18T21:06:00Z") },
{ " id" : 6, "item" : "Cappuccino", "price" : 7, "size": "Tall", "quantity" : 20, "date" :
ISODate("2022-02-20T10:07:00Z") },
{ "_id" : 7, "item" : "Lattes", "price" : 25, "size": "Tall", "quantity" : 30, "date" : ISODate("2022-
02-21T10:08:00Z") },
{ " id" : 8, "item" : "Americanos", "price" : 10, "size": "Grande", "quantity" : 21, "date" :
ISODate("2022-02-22T14:09:00Z") },
{ " id" : 9, "item" : "Cappuccino", "price" : 10, "size": "Grande", "quantity" : 17, "date" :
ISODate("2022-02-23T14:09:00Z") },
{ " id": 10, "item": "Americanos", "price": 8, "size": "Tall", "quantity": 15, "date":
ISODate("2022-02-25T14:09:00Z")}
]);
```

```
Atlas atlas—s6taen—shard—9 [primary] test> use MongoClass satisfied to do HongoClass Atlas atlas—s6taep—shard—9 [primary] MongoClass> db.products.insertMany([ ... ( _id' : 1, _name : "Nbnew", _price' : 799, "releaseDate': ISODate('2011-09-14'), "spec" : { "ram" : 4, "screen" : 9.5, "cpu" : 2.66 }, "color": [" white", "black", "purple"], "storage: [60,128,256], "color": [" white", "black", "purple"], "storage: [128,256,512]], "color": [" white", "black", "purple"], "storage: [128,256,512]], "color": [" white", "black", "purple"], "storage: [160,128], "storage: [160,128], "storage: [160,128], "storage: [160,128], "storage: [160,128], "storage: [182,256,129]], "storage: [160,128], "storage: [182,256,129]], "storage: [182,256,129]], "storage: [182,256,129]], "storage: [182,256,129], "storage: [182,256,129]], "storage: [182,256,129]], "storage: [182,256,129]], "storage: [182,256,129], "storage: [182,256,129]], "storage: [182,256]], "storage: [182,
```

1. How do you find all documents where the field "item" is "Mochas"?

2. How do you find all items who are less than 15 of price?

3. How do you find items who are either less than 10 or greater than 20?

4. How do you find all documents where the quantity field exists?

```
Atlas atlas-x6taep-shard-0 [primary] MongoClass> db.sales.find({
     id: 1,
'tem; 'Americanos',
   item: price: 5,
    quantity: 22, date: ISODate('2022-01-15T08:00:00.000Z')
   _id: 2,
item: 'Cappuccino',
price: 6,
size: 'Short',
    quantity: 12,
date: ISODate('2022-01-16T09:00:00.000Z')
     id: 3,
'Lattes',
   item.
price: 15,
size: 'Grande',
    quantity: 25, '
date: ISODate('2022-01-16T09:05:00.000Z')
     _id: 4,
'tem: 'Mochas',
    price: 25,
size: 'Tall
    size:
     quantity: 11
    date: ISODate('2022-02-17T08:00:00.000Z')
     _id: 5,
'tam: 'Americanos',
    price: 10,
```

```
db.products.insertMany([
{ " id": 1, "name": "xPhone", "price": 799, "releaseDate": ISODate("2011-05-14"), "spec": {
"ram": 4, "screen": 6.5, "cpu": 2.66 }, "color": ["white", "black"], "storage": [64,128,256]},
{ " id" : 2, "name" : "xTablet", "price" : 899, "releaseDate": ISODate("2011-09-01") , "spec" : {
"ram": 16, "screen": 9.5, "cpu": 3.66 }, "color": ["white", "black", "purple"], "storage":
[128,256,512]},
{ " id" : 3, "name" : "SmartTablet", "price" : 899, "releaseDate": ISODate("2015-01-14"),
"spec": { "ram": 12, "screen": 9.7, "cpu": 3.66 }, "color": ["blue"], "storage": [16,64,128]},
{ "_id" : 4, "name" : "SmartPad", "price" : 699, "releaseDate": ISODate("2020-05-14"), "spec" :
{ "ram" : 8, "screen" : 9.7, "cpu" : 1.66 }, "color": ["white", "orange", "gold", "gray"], "storage":
[128,256,1024]},
{ "_id" : 5, "name" : "SmartPhone", "price" : 599, "releaseDate": ISODate("2022-09-14"),
"spec" : { "ram" : 4, "screen" : 9.7, "cpu" : 1.66 }, "color":
["white", "orange", "gold", "gray"], "storage": [128,256]}
])
5. How do you find all documents where the color array contains the value "white"?
Atlas atlas-x6taep-shard-0 [primary] MongoClass> db.collection.find({ "color": "white" }).pretty()
```

6. How do you update the ram of the user named "xTablet" to 24?

```
Atlas atlas-x6taep-shard-0 [primary] MongoClass> db.collection.updateOne(
... { "user": "xTablet" },
... { "$set": { "ram": 24 } }
... )
...
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    modifiedCount: 0,
    upsertedCount: 0
}
```

7. How do you find all products and only return their 'spec' field?

```
Atlas atlas-x6taep-shard-0 [primary] MongoClass> db.products.find({}, { "spec": 1, "_id": 0 }).pretty()
[
{ spec: { ram: 4, screen: 6.5, cpu: 2.66 } },
{ spec: { ram: 16, screen: 9.5, cpu: 3.66 } },
{ spec: { ram: 12, screen: 9.7, cpu: 3.66 } },
{ spec: { ram: 8, screen: 9.7, cpu: 1.66 } },
{ spec: { ram: 4, screen: 9.7, cpu: 1.66 } }

Atlas atlas-x6taep-shard-0 [primary] MongoClass>
```

8. How do you find all products and sort them by their price in descending order?

9. How do you find the first 2 products, skipping the first one?

```
Atlas atlas-x6taep-shard-0 [primary] MongoClass> db.products.find().sort({ "price": -1 }).pretty()
    _id: 2,
name: 'xTablet',
     releaseDate: ISODate('2011-09-01T00:00:00.000Z'),
    spec: { ram: 16, screen: 9.5, cpu: 3.66 },
color: [ 'white', 'black', 'purple' ],
storage: [ 128, 256, 512 ]
    _id: 3,
name: 'SmartTablet',
    price: 899,
     releaseDate: ISODate('2015-01-14T00:00:00.000Z'),
    spec: { ram: 12, screen: 9.7, cpu: 3.66 },
color: [ 'blue' ],
storage: [ 16, 64, 128 ]
    _id: 1,
name: 'xPhone',
price: 799,
     releaseDate: ISODate('2011-05-14T00:00:00.000Z'),
    spec: { ram: 4, screen: 6.5, cpu: 2.66 }, color: [ 'white', 'black' ], storage: [ 64, 128, 256 ]
    _id: 4,
name: 'SmartPad',
    price: 699,
    releaseDate: ISODate('2020-05-14T00:00:00.000Z'),
    spec: { ram: 8, screen: 9.7, cpu: 1.66 }, color: [ 'white', 'orange', 'gold', 'gray' ], storage: [ 128, 256, 1024 ]
     _id: 5,
```

10. How do you find all users whose name starts with the letter "S" and price should be greater of 700?

11. How do you calculate the total price of all items?

```
Atlas atlas-x6taep-shard-0 [primary] MongoClass> db.sales.aggregate([
... {
... "$group": {
... "_id": null,
... "totalPrice": { "$sum": "$price" }
... }
... }
... ])
...
[ { _id: null, totalPrice: 121 } ]
Atlas atlas-x6taep-shard-0 [primary] MongoClass> |
```