## **MONGODB TEST**

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## 22.3.25

```
1. 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")}
]);
```

2. db.sales.find({ "item": "Mochas" });

```
> db.sales.find({ "item": "Mochas" });
< {
   item: 'Mochas',
   date: 2022-02-17T08:00:00.000Z
> db.sales.find({ "$or": [ { "price": { "$lt": 10 } }, { "price": { "$gt": 20 } } ] });
   item: 'Americanos',
   size: 'Short',
   date: 2022-01-15T08:00:00.000Z
   item: 'Cappuccino',
   size: 'Short',
   date: 2022-01-16T09:00:00.000Z
```

```
_id: 4,
 item: 'Mochas',
 price: 25,
 size: 'Tall',
 date: 2022-02-17T08:00:00.000Z
 _id: 6,
 item: 'Cappuccino',
 size: 'Tall',
 quantity: 20,
 date: 2022-02-20T10:07:00.000Z
}
 item: 'Lattes',
 price: 25,
 size: 'Tall',
 quantity: 30,
 date: 2022-02-21T10:08:00.000Z
 _id: 10,
 item: 'Americanos',
 price: 8,
 size: 'Tall',
```

3. db.sales.find({ "\$or": [ { "price": { "\$lt": 10 } }, { "price": { "\$gt": 20 } } ] });

```
size: 'Tall',
   quantity: 30,
   date: 2022-02-21T10:08:00.000Z
   _id: 10,
   item: 'Americanos',
   price: 8,
   size: 'Tall',
   quantity: 15,
   date: 2022-02-25T14:09:00.000Z
 db.sales.find({ "color": "white" });
 db.sales.find({ "color": "white" });
 db.users.updateOne(
    { "name": "xTablet" },
    { "$set": { "ram": 24 } }
 );
   acknowledged: true,
   insertedId: null,
   matchedCount: 0,
   modifiedCount: 0,
   upsertedCount: 0
 db.products.find({}, { "spec": 1, "_id": 0 });
test >
```

```
4. db.sales.find({ "color": "white" });
```

```
5. db.users.updateOne(
    { "name": "xTablet" },
```

```
{ "$set": { "ram": 24 } }
);
size: 'Tall',
quantity: 30,
```

```
date: 2022-02-21T10:08:00.000Z
}
  _id: 10,
  item: 'Americanos',
  price: 8,
  size: 'Tall',
  quantity: 15,
  date: 2022-02-25T14:09:00.000Z
 }
db.sales.find({ "color": "white" });
 db.sales.find({ "color": "white" });
db.users.updateOne(
   { "name": "xTablet" },
   { "$set": { "ram": 24 } }
);
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
db.products.find({}, { "spec": 1, "_id": 0 });
est>
```

6. db.products.find({}, { "spec": 1, "\_id": 0 });

```
7. db.products.find().sort({ "price": -1 });
8. db.products.find().skip(1).limit(2);
9. db.users.find({
   "name": { "$regex": "^$", "$options": "i" },
   "price": { "$gt": 700 }
});
10. db.sales.aggregate([
  {
     "$group": {
       "_id": null,
       "totalPrice": { "$sum": "$price" }
    }
  }
]);
> db.sales.aggregate([
           "$group": {
               "_id": null,
               "totalPrice": { "$sum": "$price"
           }
      }
 1);
   _id: null,
    totalPrice: 121
```

11. db.sales.find({}, { "size": 1, "\_id": 0 });

```
size: 'Short'
 size: 'Grande'
 size: 'Tall'
 size: 'Grande'
 size: 'Tall'
 size: 'Tall'
 size: 'Grande'
 }
 size: 'Grande'
size: 'Tall'
}
test>
```

```
> db.sales.aggregate([
     {
          "$group": {
              "_id": null,
              "totalPrice": { "$sum": "$price"
     }
 1);
< {
   _id: null,
   totalPrice: 121
 }
> db.sales.find({}, { "size": 1, "_id": 0 });
   size: 'Short'
 {
   size: 'Short'
 }
   size: 'Grande'
```

## 13. db.sales.find().sort({ "price": 1 }).skip(1).limit(1);

```
> db.sales.find().sort({ "price": 1 }).skip(1).limit(1);

< {
    _id: 2,
    item: 'Cappuccino',
    price: 6,
    size: 'Short',
    quantity: 12,
    date: 2022-01-16T09:00:00.000Z
}</pre>
```

```
db.sales.aggregate([
        "$group": {
            "_id": "$item",
            "totalQuantity": { "$sum": "$quantity" },
            "averagePrice": { "$avg": "$price" }
1);
{ {
  _id: 'Cappuccino',
  totalQuantity: 49,
  _id: 'Lattes',
  totalQuantity: 55,
  averagePrice: 20
  _id: 'Mochas',
  _id: 'Americanos',
  averagePrice: 8.25
```