

MongoDB Case Study 1:

Data:

Added the data using JSON file in MongoDB Compass Application in a Collection named *product_details*.

Queries:

1 . Find all the information about each products:

```
>db.product_details.find({})
```

Documents25

Aggregations

Schema

Indexes1

Validation

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{ }

Generate query +

Explain

Reset

Find

↶

Options ▶

ADD DATA ▼

EXPORT DATA ▼

UPDATE

DELETE

25 ▼

1 - 25 of 25

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★ product_details

	_id ObjectId	id String	product_name String	product_price Int32	product_material String	product_color String	
1	ObjectId('68812f6a338a153...	"1"	"Intelligent Fresh Chips"	655	"Concrete"	"mint green"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
2	ObjectId('68812f6a338a153...	"2"	"Practical Fresh Sausages"	911	"Cotton"	"indigo"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
3	ObjectId('68812f6a338a153...	"3"	"Refined Steel Car"	690	"Rubber"	"gold"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
4	ObjectId('68812f6a338a153...	"4"	"Gorgeous Plastic Pants"	492	"Soft"	"plum"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
5	ObjectId('68812f6a338a153...	"5"	"Sleek Cotton Chair"	33	"Fresh"	"black"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
6	ObjectId('68812f6a338a153...	"6"	"Awesome Wooden Towels"	474	"Plastic"	"orange"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
7	ObjectId('68812f6a338a153...	"7"	"Practical Soft Shoes"	500	"Rubber"	"pink"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
8	ObjectId('68812f6a338a153...	"8"	"Incredible Steel Hat"	78	"Rubber"	"violet"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
9	ObjectId('68812f6a338a153...	"9"	"Awesome Wooden Ball"	28	"Soft"	"azure"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
10	ObjectId('68812f6a338a153...	"10"	"Generic Wooden Pizza"	84	"Frozen"	"indigo"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
11	ObjectId('68812f6a338a153...	"11"	"Unbranded Wooden Cheese"	26	"Soft"	"black"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
12	ObjectId('68812f6a338a153...	"12"	"Unbranded Plastic Salad"	89	"Wooden"	"pink"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
13	ObjectId('68812f6a338a153...	"13"	"Gorgeous Cotton Keyboard"	37	"Concrete"	"sky blue"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
14	ObjectId('68812f6a338a153...	"14"	"Incredible Steel Shirt"	54	"Metal"	"white"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
15	ObjectId('68812f6a338a153...	"15"	"Ergonomic Cotton Hat"	43	"Rubber"	"mint green"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
16	ObjectId('68812f6a338a153...	"16"	"Small Soft Chair"	47	"Cotton"	"teal"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
17	ObjectId('68812f6a338a153...	"17"	"Incredible Metal Car"	36	"Fresh"	"indigo"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
18	ObjectId('68812f6a338a153...	"18"	"Licensed Plastic Bacon"	88	"Steel"	"yellow"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
19	ObjectId('68812f6a338a153...	"19"	"Intelligent Cotton Chips"	46	"Soft"	"azure"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
20	ObjectId('68812f6a338a153...	"20"	"Handcrafted Wooden Bacon"	36	"Concrete"	"lime"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
21	ObjectId('68812f6a338a153...	"21"	"Unbranded Granite Chicke...	90	"Metal"	"gold"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
22	ObjectId('68812f6a338a153...	"22"	"Ergonomic Soft Hat"	99	"Rubber"	"black"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
23	ObjectId('68812f6a338a153...	"23"	"Intelligent Steel Pizza"	95	"Cotton"	"azure"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
24	ObjectId('68812f6a338a153...	"24"	"Tasty Rubber Cheese"	47	"Frozen"	"orchid"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>
25	ObjectId('68812f6a338a153...	"25"	"Licensed Steel Car"	20	"Cotton"	"indigo"	<div><div>✎</div><div>🗑</div><div>🔄</div></div>

2 . Find the product price which are between 400 to 800

>*db.product_details.find({product_price: {\$gte: 400, \$lte: 800}})*

Documents 25 Aggregations Schema Indexes 1 Validation

{product_price: {\$gte: 400, \$lte: 800}}

Generate query + Explain Reset Find Options ▶

ADD DATA EXPORT DATA UPDATE DELETE

25 1 - 5 of 5

product_details						
	_id ObjectId	id String	product_name String	product_price Int32	product_material String	product_color String
1	ObjectId('68812f6a338a153...	"1"	"Intelligent Fresh Chips"	655	"Concrete"	"mint green"
2	ObjectId('68812f6a338a153...	"3"	"Refined Steel Car"	690	"Rubber"	"gold"
3	ObjectId('68812f6a338a153...	"4"	"Gorgeous Plastic Pants"	492	"Soft"	"plum"
4	ObjectId('68812f6a338a153...	"6"	"Awesome Wooden Towels"	474	"Plastic"	"orange"
5	ObjectId('68812f6a338a153...	"7"	"Practical Soft Shoes"	500	"Rubber"	"pink"

3 . Find the product price which are not between 400 to 600

>*db.product_details.find({product_price: {\$not: {\$gte: 400, \$lte: 600}}})*

Documents 25 Aggregations Schema Indexes 1 Validation

{product_price: {\$not: {\$gte: 400, \$lte: 600}}}

Generate query + Explain Reset Find Options ▶

ADD DATA EXPORT DATA UPDATE DELETE

25 1 - 22 of 22

product_details						
	_id ObjectId	id String	product_name String	product_price Int32	product_material String	product_color String
1	ObjectId('68812f6a338a153...	"1"	"Intelligent Fresh Chips"	655	"Concrete"	"mint green"
2	ObjectId('68812f6a338a153...	"2"	"Practical Fresh Sausages"	911	"Cotton"	"indigo"
3	ObjectId('68812f6a338a153...	"3"	"Refined Steel Car"	690	"Rubber"	"gold"
4	ObjectId('68812f6a338a153...	"5"	"Sleek Cotton Chair"	33	"Fresh"	"black"
5	ObjectId('68812f6a338a153...	"8"	"Incredible Steel Hat"	78	"Rubber"	"violet"
6	ObjectId('68812f6a338a153...	"9"	"Awesome Wooden Ball"	28	"Soft"	"azure"
7	ObjectId('68812f6a338a153...	"10"	"Generic Wooden Pizza"	84	"Frozen"	"indigo"
8	ObjectId('68812f6a338a153...	"11"	"Unbranded Wooden Cheese"	26	"Soft"	"black"
9	ObjectId('68812f6a338a153...	"12"	"Unbranded Plastic Salad"	89	"Wooden"	"pink"
10	ObjectId('68812f6a338a153...	"13"	"Gorgeous Cotton Keyboard"	37	"Concrete"	"sky blue"
11	ObjectId('68812f6a338a153...	"14"	"Incredible Steel Shirt"	54	"Metal"	"white"
12	ObjectId('68812f6a338a153...	"15"	"Ergonomic Cotton Hat"	43	"Rubber"	"mint green"
13	ObjectId('68812f6a338a153...	"16"	"Small Soft Chair"	47	"Cotton"	"teal"
14	ObjectId('68812f6a338a153...	"17"	"Incredible Metal Car"	36	"Fresh"	"indigo"
15	ObjectId('68812f6a338a153...	"18"	"Licensed Plastic Bacon"	88	"Steel"	"yellow"
16	ObjectId('68812f6a338a153...	"19"	"Intelligent Cotton Chips"	46	"Soft"	"azure"
17	ObjectId('68812f6a338a153...	"20"	"Handcrafted Wooden Bacon"	36	"Concrete"	"lime"
18	ObjectId('68812f6a338a153...	"21"	"Unbranded Granite Chicke...	90	"Metal"	"gold"
19	ObjectId('68812f6a338a153...	"22"	"Ergonomic Soft Hat"	99	"Rubber"	"black"
20	ObjectId('68812f6a338a153...	"23"	"Intelligent Steel Pizza"	95	"Cotton"	"azure"
21	ObjectId('68812f6a338a153...	"24"	"Tasty Rubber Cheese"	47	"Frozen"	"orchid"
22	ObjectId('68812f6a338a153...	"25"	"Licensed Steel Car"	20	"Cotton"	"indigo"

4 . List the four products which are greater than 500 in price

>*db.product_details.find({product_price: {\$gt: 500}}).limit(4)*

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Query: `{product_price: {$gt: 500}}` [Generate query](#) [Explain](#) [Reset](#) [Find](#) [Options](#)

Project: `{ field: 0 }`

Sort: `{ field: -1 } or [['field', -1]]` **Max Time MS:**

Collation: `{ locale: 'simple' }` **Skip:** **Limit:**

Index Hint: `{ field: -1 }`

[ADD DATA](#) [EXPORT DATA](#) [UPDATE](#) [DELETE](#) [Help](#)

25 1 - 3 of 3 [Refresh](#) [Previous](#) [Next](#) [Menu](#) [Filter](#) [Grid](#)

	product_details	_id ObjectId	id String	product_name String	product_price Int32	product_material String	product_color String	
1		ObjectId('68812f6a338a153...	"1"	"Intelligent Fresh Chips"	655	"Concrete"	"mint green"	Edit Copy Delete
2		ObjectId('68812f6a338a153...	"2"	"Practical Fresh Sausages"	911	"Cotton"	"indigo"	Edit Copy Delete
3		ObjectId('68812f6a338a153...	"3"	"Refined Steel Car"	699	"Rubber"	"gold"	Edit Copy Delete

5 . Find the product name and product material of each products

>*db.product_details.find({},{product_name: 1, product_material: 1})*

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Query: Type a query: `{ field: 'value' }` or [Generate query](#) [Explain](#) [Reset](#) [Find](#) [Options](#)

Project: `{product_name:1, product_material:1}`

Sort: `{ field: -1 } or [['field', -1]]` **Max Time MS:**

Collation: `{ locale: 'simple' }` **Skip:** **Limit:**

Index Hint: `{ field: -1 }`

[EXPORT DATA](#) [Refresh](#) [Previous](#) [Next](#) [Menu](#) [Filter](#) [Grid](#)

	product_details	product_name String	product_material String	_id ObjectId
1		"Intelligent Fresh Chips"	"Concrete"	ObjectId('68812f6a338a153...
2		"Practical Fresh Sausages"	"Cotton"	ObjectId('68812f6a338a153...
3		"Refined Steel Car"	"Rubber"	ObjectId('68812f6a338a153...
4		"Gorgeous Plastic Pants"	"Soft"	ObjectId('68812f6a338a153...
5		"Sleek Cotton Chair"	"Fresh"	ObjectId('68812f6a338a153...
6		"Awesome Wooden Towels"	"Plastic"	ObjectId('68812f6a338a153...
7		"Practical Soft Shoes"	"Rubber"	ObjectId('68812f6a338a153...
8		"Incredible Steel Hat"	"Rubber"	ObjectId('68812f6a338a153...
9		"Awesome Wooden Ball"	"Soft"	ObjectId('68812f6a338a153...
10		"Generic Wooden Pizza"	"Frozen"	ObjectId('68812f6a338a153...
11		"Unbranded Wooden Cheese"	"Soft"	ObjectId('68812f6a338a153...
12		"Unbranded Plastic Salad"	"Wooden"	ObjectId('68812f6a338a153...
13		"Gorgeous Cotton Keyboard"	"Concrete"	ObjectId('68812f6a338a153...
14		"Incredible Steel Shirt"	"Metal"	ObjectId('68812f6a338a153...
15		"Ergonomic Cotton Hat"	"Rubber"	ObjectId('68812f6a338a153...
16		"Small Soft Chair"	"Cotton"	ObjectId('68812f6a338a153...
17		"Incredible Metal Car"	"Fresh"	ObjectId('68812f6a338a153...
18		"Licensed Plastic Bacon"	"Steel"	ObjectId('68812f6a338a153...
19		"Intelligent Cotton Chips"	"Soft"	ObjectId('68812f6a338a153...
20		"Handcrafted Wooden Bacon"	"Concrete"	ObjectId('68812f6a338a153...
21		"Unbranded Granite Chicke...	"Metal"	ObjectId('68812f6a338a153...
22		"Ergonomic Soft Hat"	"Rubber"	ObjectId('68812f6a338a153...

6 . Find the product with a row id of 10

>db.product_details.find({id: "10"})

Documents 25 Aggregations Schema Indexes 1 Validation

`{id: "10"}` [Generate query](#) [Explain](#) [Reset](#) [Find](#) [Options](#)

Project { field: 0 }

Sort { field: -1 } or [['field', -1]] Max Time MS 60000

Collation { locale: 'simple' }

Index Hint { field: -1 }

Skip 0 Limit 0

[ADD DATA](#) [EXPORT DATA](#) [UPDATE](#) [DELETE](#) [?](#)

25 1-1 of 1

product_details

	_id ObjectId	id String	product_name String	product_price Int32	product_material String	product_color String
1	ObjectId('68812f6a338a153...	"10"	"Generic Wooden Pizza"	84	"Frozen"	"indigo"

7 . Find only the product name and product material

>db.product_details.find({product_name:1, product_material:1, _id:0})

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`{}` [Generate query](#) [Explain](#) [Reset](#) [Find](#) [Options](#)

Project {product_name: 1, product_material: 1, _id: 0}

Sort { field: -1 } or [['field', -1]] Max Time MS 60000

Collation { locale: 'simple' }

Index Hint { field: -1 }

Skip 0 Limit 0

[EXPORT DATA](#)

25 1-25 of 25

product_details

	product_name String	product_material String
1	"Intelligent Fresh Chips"	"Concrete"
2	"Practical Fresh Sausages"	"Cotton"
3	"Refined Steel Car"	"Rubber"
4	"Gorgeous Plastic Pants"	"Soft"
5	"Sleek Cotton Chair"	"Fresh"
6	"Awesome Wooden Towels"	"Plastic"
7	"Practical Soft Shoes"	"Rubber"
8	"Incredible Steel Hat"	"Rubber"
9	"Awesome Wooden Ball"	"Soft"
10	"Generic Wooden Pizza"	"Frozen"
11	"Unbranded Wooden Cheese"	"Soft"
12	"Unbranded Plastic Salad"	"Wooden"
13	"Gorgeous Cotton Keyboard"	"Concrete"
14	"Incredible Steel Shirt"	"Metal"
15	"Ergonomic Cotton Hat"	"Rubber"
16	"Small Soft Chair"	"Cotton"
17	"Incredible Metal Car"	"Fresh"
18	"Licensed Plastic Bacon"	"Steel"
19	"Intelligent Cotton Chips"	"Soft"
20	"Handcrafted Wooden Bacon"	"Concrete"
21	"Unbranded Granite Chicke...	"Metal"
22	"Ergonomic Soft Hat"	"Rubber"

8 . Find all products which contain the value of soft in product material

>*db.product_details.find({product_material: "Soft"})*

Documents 25 Aggregations Schema Indexes 1 Validation

Query: `{product_material: "Soft"}` [Generate query](#) [Explain](#) [Reset](#) [Find](#) [Options](#)

Project: `{ field: 0 }`

Sort: `{ field: -1 } or [['field', -1]]` Max Time MS: 60000

Collation: `{ locale: 'simple' }` Skip: 0 Limit: 0

Index Hint: `{ field: -1 }`

[ADD DATA](#) [EXPORT DATA](#) [UPDATE](#) [DELETE](#) [?](#)

25 1 - 4 of 4

	product_details	_id ObjectId	id String	product_name String	product_price Int32	product_material String	product_color String	
1		ObjectId('68812f6a338a153...	"4"	"Gorgeous Plastic Pants"	492	"Soft"	"plum"	Edit Copy Delete
2		ObjectId('68812f6a338a153...	"9"	"Awesome Wooden Ball"	28	"Soft"	"azure"	Edit Copy Delete
3		ObjectId('68812f6a338a153...	"11"	"Unbranded Wooden Cheese"	26	"Soft"	"black"	Edit Copy Delete
4		ObjectId('68812f6a338a153...	"19"	"Intelligent Cotton Chips"	46	"Soft"	"azure"	Edit Copy Delete

9 . Find products which contain product color indigo and product price 492.00

>*db.product_details.find({product_color: "indigo", product_price:492})*

Documents 25 Aggregations Schema Indexes 1 Validation

Query: `{ product_color: "indigo", product_price: 492 }` [Generate query](#) [Explain](#) [Reset](#) [Find](#) [Options](#)

Project: `{ field: 0 }`


Sort: `{ field: -1 } or [['field', -1]]` Max Time MS: 60000

Collation: `{ locale: 'simple' }` Skip: 0 Limit: 0

Index Hint: `{ field: -1 }`

[ADD DATA](#) [EXPORT DATA](#) [UPDATE](#) [DELETE](#) [?](#)

25 0 - 0 of 0



No results

Try modifying your query to get results.