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Installing MongoDB & MongoDB Compass | Sigma Web Development Course - Tutorial ...

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**Next: CRUD Operations in MongoDB | Sigma We...**

Today's Special · 4/9



Google search results for "what is a database".

schema administrator developer manager

DBMS

What is a Database? Definition, type...

Database management

What is a Database?

Database - Wikipedia

What is Database? Types, Examples and ...

user_id	first_name	last_name	age
1	John	Doe	29
2	Jane	Doe	31
3	Peter	Paul	30
4	Pat	Pascal	41

Table: Users

MongoDB Compass - localhost:27017/sigma.courses

Connect Edit View Collection Help

My Queue...

sigma

co

>_MONGOSH

```
> show databases
< admin          40.00 KiB
  config         72.00 KiB
  local          80.00 KiB
  realdata      272.00 KiB
  sigma          40.00 KiB
  snakes         1.29 MiB
> use sigma
< switched to db sigma
sigma>
```

FreeCodeCamp: What is SQL?

MongoDB: What Is A Database? | MongoDB | MongoDB

Toptal: Database Design Bad Practices | Toptal

IntelliPaat: What is Database? Types, Examples and ...

SlidePlayer: Software Development Unit 2 Data...

SlidePlayer: What is a Database? A Databas...

The Tech-FAQ: What is a Database? - Tech-F...

Related searches:

- types of database
- what is database management system
- data base what are databases

Database Pros vs Database Cons

Database Pros:

- Organized data storage and retrieval
- Efficient data management
- Secure data storage and access control
- Reduced data redundancy and storage costs
- Improved data consistency and accuracy
- Enhanced data security and privacy
- Facilitates data analysis and reporting
- Provides a structured and organized way of storing and managing data
- Enables data sharing and collaboration
- Supports data backup and recovery

Database Cons:

- Complexity in setup and configuration
- Requires specialized knowledge and skills for management
- Higher initial costs compared to spreadsheets or simple storage solutions
- Potential for data loss or corruption if not properly maintained
- May introduce latency or slow down application performance
- Requires regular updates and maintenance
- Can be a single point of failure if not properly backed up



Google search results for "what is a database".

schema administrator developer manage

DBMS

What is a Database? Definition, type...

Database management

What is a Database? Types, Examples and ...

user_id	first_name	last_name	age
1	John	Doe	29
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4	Pat	Pascoe	41

Table: Users

MongoDB Compass - localhost:27017/sigma.courses

Connect Edit View Collection Help

localhost:27017

My Que...

sigma

cour

>_MONGOSH

TypeError: db.find is not a function

```

> db.courses.find()
< {
  _id: ObjectId('65a0faf21c6734e15d0a9c91'),
  name: 'Java',
  Price: 20000,
  Instructor: 'Harry'
}
sigma>

```

FreeCodeCamp: What is SQL?

MongoDB: What Is A Database? | MongoDB | MongoDB

Toptal: Database Design Bad Practices | Topt...

IntelliPaat: What is Database? Types, Examples and...

SlidePlayer: Software Development Unit 2 Data...

SlidePlayer: What is a Database? A Databas...

The Tech-FAQ: What is a Database? - Tech-F...

Related searches:

- types of database
- what is database management system
- data base what are databases

Database Pros vs Database Cons

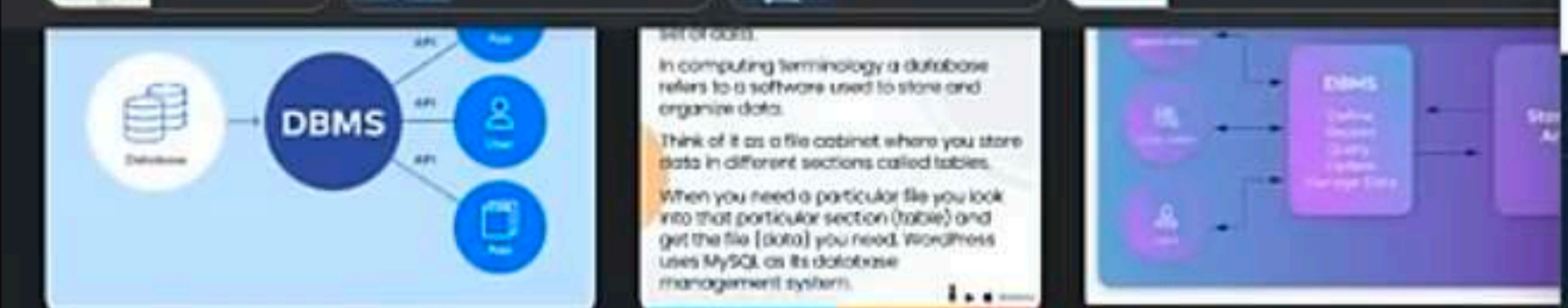
Database Pros:

- Highly scalable and flexible
- Easy to learn and use
- Supports a wide range of data types
- Highly secure and reliable
- Supports a wide range of data types
- Highly secure and reliable

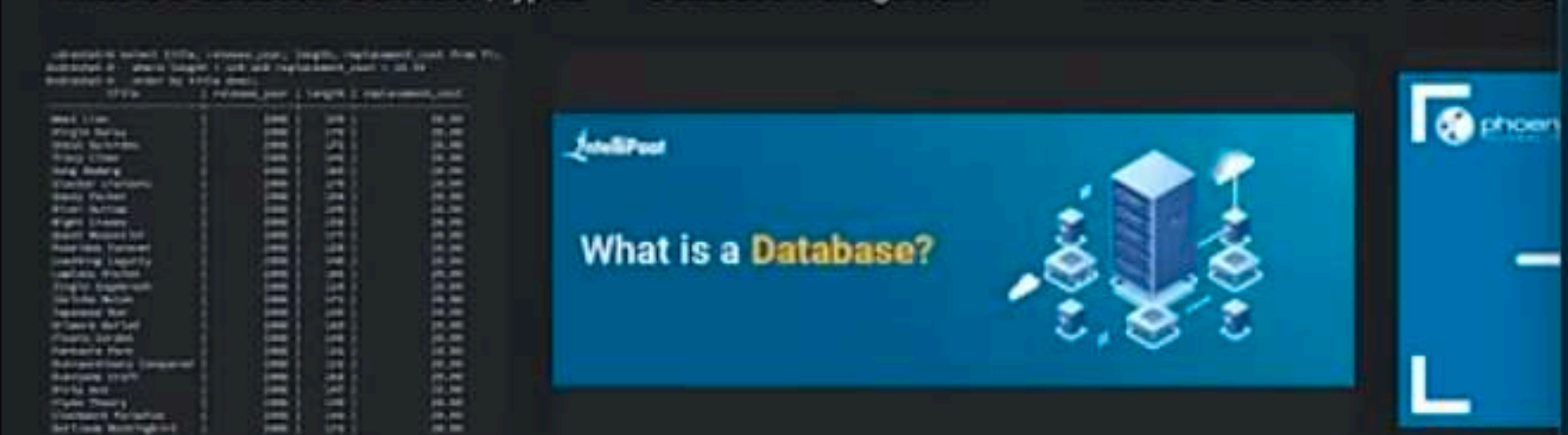
Database Cons:

- Not as fast as some other databases
- Not as easy to learn and use as some other databases
- Not as easy to learn and use as some other databases
- Not as easy to learn and use as some other databases

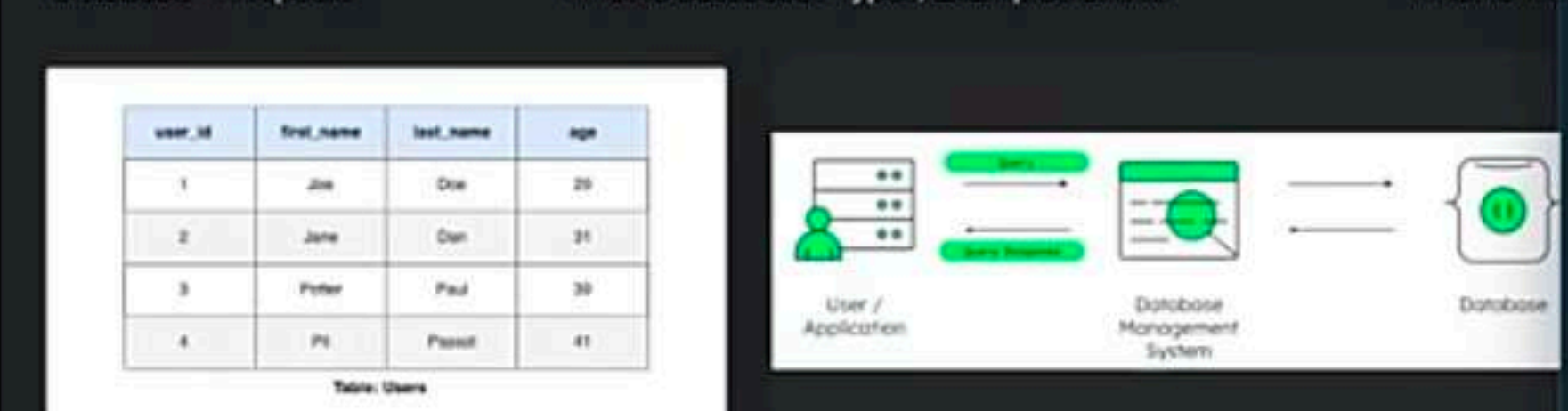




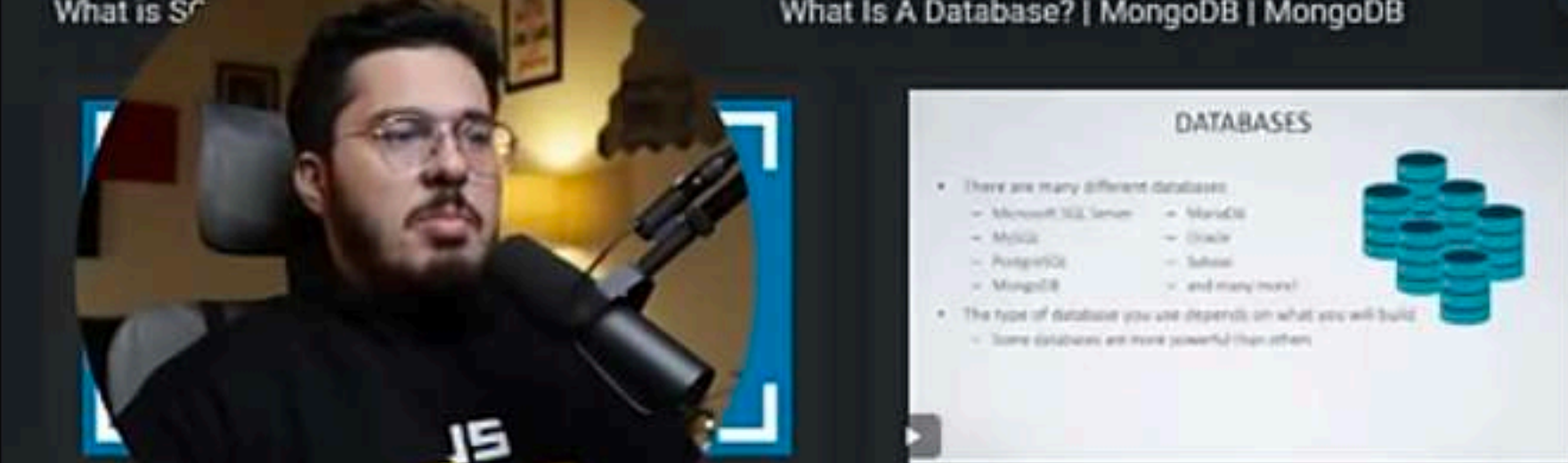
FiveTran What is a database? Definition, type... Pinterest Database management Devart Blog What Is a Database? - Devart Blo



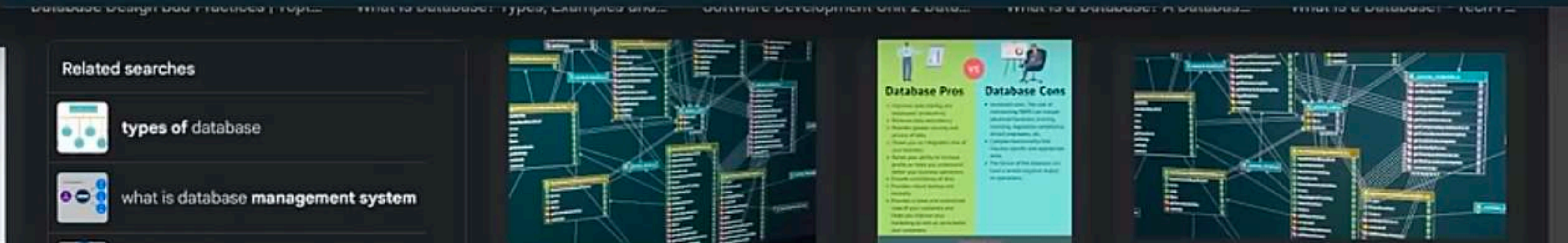
Wikipedia Database - Wikipedia IntelliPaaS What is Database? Types, Examples and ... phoenixN What Is A



freeCodeCamp What is SC MongoDB What Is A Database? | MongoDB | MongoDB



```
< {
  _id: ObjectId('65a0faf21c6734e15d0a9c91'),
  name: 'Java',
  Price: 20000,
  Instructor: 'Harry'
}
> db.course.insertOne({name: "JavaScript"})
< {
  acknowledged: true,
  insertedId: ObjectId('65a0fbfd7c9650199fa8c72a')
}
> db.courses.insertOne({name: "JavaScript"})
< {
  acknowledged: true,
  insertedId: ObjectId('65a0fc307c9650199fa8c72b')
}
sigma>
```





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Today's Special • 4/7



Create

Update

CRUD

Read

Delete

MONGODB

CONNECTIONS

- localhost:27017 connected
 - admin
 - config
 - local
 - mongodbVSCodePlaygroun...
 - realdata
 - sigma

PLAYGROUNDS

No MongoDB playground files found in the workspace.

Create New Playground

HELP AND FEEDBACK

- What's New
- Extension Documentation
- Documentation

```
JS /* global use, db */ c:\Users\itit\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 95\playground-1.mongodb.js

Currently connected to localhost:27017. Click here to change connection.

1 /* global use, db */
2 // MongoDB Playground
3 // To disable this template go to Settings | MongoDB | Use Default Template For Playground.
4 // Make sure you are connected to enable completions and to be able to run a playground.
5 // Use Ctrl+Space inside a snippet or a string literal to trigger completions.
6 // The result of the last command run in a playground is shown on the results panel.
7 // By default the first 20 documents will be returned with a cursor.
8 // Use 'console.log()' to print to the debug output.
9 // For more documentation on playgrounds please refer to
10 // https://www.mongodb.com/docs/mongodb-vscode/playgrounds/
11
12 // Select the database to use.
13 use('mongodbVSCodePlaygroundDB');
14
15 // Insert a few documents into the sales collection.
16 db.getCollection('sales').insertMany([
17   { 'item': 'abc', 'price': 10, 'quantity': 2, 'date': new Date('2014-03-01T08:00:00Z') },
18   { 'item': 'jkl', 'price': 20, 'quantity': 1, 'date': new Date('2014-03-01T09:00:00Z') },
19   { 'item': 'xyz', 'price': 5, 'quantity': 10, 'date': new Date('2014-03-15T09:00:00Z') },
20   { 'item': 'xyz', 'price': 5, 'quantity': 20, 'date': new Date('2014-04-04T11:21:39.736Z') },
21   { 'item': 'abc', 'price': 10, 'quantity': 10, 'date': new Date('2014-04-04T21:23:13.331Z') },
22   { 'item': 'def', 'price': 7.5, 'quantity': 5, 'date': new Date('2015-06-04T05:08:13Z') },
23   { 'item': 'def', 'price': 7.5, 'quantity': 10, 'date': new Date('2015-09-10T08:43:00Z') },
24   { 'item': 'abc', 'price': 10, 'quantity': 5, 'date': new Date('2016-02-06T20:20:13Z') },
25 ]);
26
```

Results panel showing the output of the MongoDB command. It displays a list of documents inserted into the 'sales' collection, including item names, prices, quantities, and timestamps.

EXPLORER

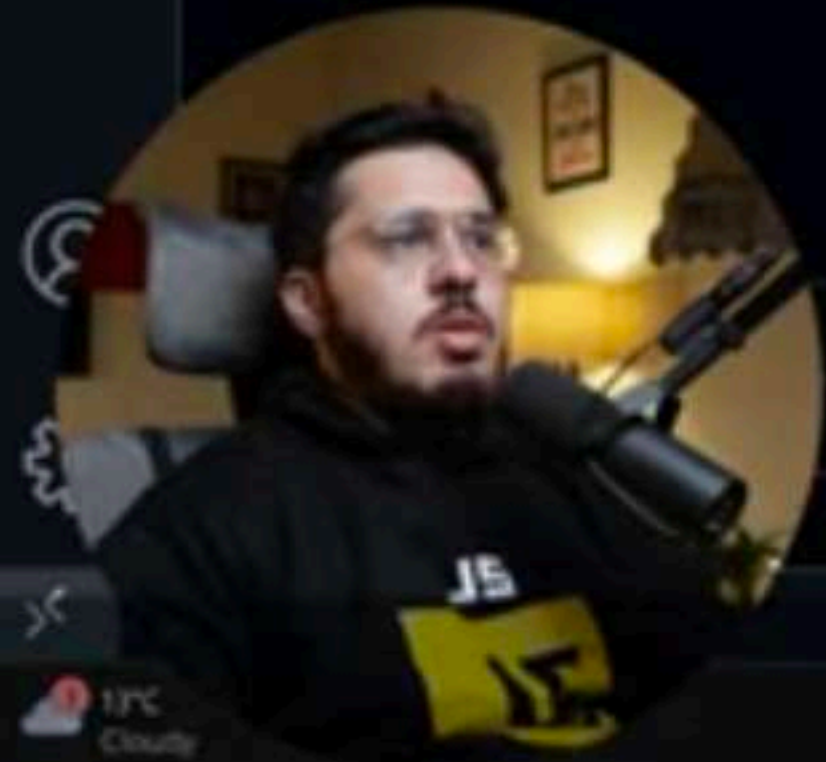
VIDEO 95

JS crud.mongodb.js

JS crud.mongodb.js

Currently connected to localhost:27017. Click here to change connection.

1



EXPLORER

VIDEO 95

JS crud.mongodb.js

Course\Video 95\playground-1.mongodb.js JS crud.mongodb.js

JS crud.mongodb.js

```
Currently connected t...  
1 use("CrudDb")  
2  
3 db.  
  createCollection  
  ("courses")
```

{ } Playground Result

```
1 {  
2   "ok": 1  
3 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

Playground output



Ln 3, Col 2 Spaces: 4 { } JSON

MONGODB

CONNECTIONS

- localhost:27017 connected
 - admin
 - config
 - CrudDb** (+)
 - local
 - mongodbVSCodePlaygroun...
 - realdata

PLAYGROUNDS

No MongoDB playground files found in the workspace.

Create New Playground

HELP AND FEEDBACK

- What's New
- Extension Documentation
- Documentation

```
JS crud.mongodb.js > ...
1 use("CrudDb")
2
3 db.createCollection("courses")
4
5 db.courses.insertOne({
6   name: "Harrys web dev free
7   course",
8   price: 0,
9   assignments: 12,
10  projects: 45
})
```

Playground Result

```
{
  "acknowledged": true,
  "insertedId": {
    "$oid":
      "65a11141c5792eaaa7862419"
  }
}
```



MONGODB

CONNECTIONS

- CrudDb
 - courses
 - Documents 2
 - Schema
 - Indexes
 - local
 - mongodbVSCoDePlaygroundDB

PLAYGROUNDS

No MongoDB playground files found in the workspace.

Create New Playground

HELP AND FEEDBACK

- What's New
- Extension Documentation
- Documentation

```
Web Development Course\Sigma-Web-Dev-Course\Video 95\playground-1.mongodb.js JS crud.mongodb.js X
```

```
JS crud.mongodb.js > ...
Currently connected to localhost:27017. Click here to change connection.
1 use("CrudDb")
2
3 db.createCollection("courses")
4
5 db.courses.insertOne({
6   name: "Harrys web dev free course",
7   price: 0,
8   assignments: 12,
9   projects: 45
10 })
```


MONGODB

CONNECTIONS

- CrudDb
 - courses
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```
JS crud.mongodb.js > ...
Currently connected to localhost:27017. Click here to change connection.
1 use("CrudDb")
2
3 db.createCollection("courses")
4
5 db.courses.insertOne({
6   name: "Harrys web dev free course",
7   price: 0,
8   assignments: 12,
9   projects: 45
10 })
11
12 > db.courses.insertMany([ ...
74   )
75
76
77
```



MONGODB

CONNECTIONS

- CrudDb
 - courses
 - Documents 2
 - Schema
 - Indexes
 - local
 - mongodbVSCodePlaygro...

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```
JS crud.mongodb.js > ...
Currently connected to localhost:27017. Click here to change connection.
1 use("CrudDb")
2
3 db.createCollection("courses")
4
5 db.courses.insertOne({
6   name: "Harrys web dev free course",
7   price: 0,
8   assignments: 12,
9   projects: 45
10 })
11
12 db.courses.insertMany([
13   {
14     "name": "Python Masterclass",
15     "price": 0,
16     "assignments": 10,
17     "projects": 30
18   },
19   {
20     "name": "JavaScript Basics",
21     "price": 0,
22     "assignments": 8,
23     "projects": 20
24   }
25 ])
```



MONGODB

CONNECTIONS

- CrudDb
 - courses
 - Documents 2
 - Schema
 - Indexes
 - local
 - mongodbVSCodePlaygro...

PLAYGROUNDS

No MongoDB playground files found in the workspace.

Create New Playground

```
JS crud.mongodb.js > ...  
75  
76  
77 let a = db.courses.find({price:  
  0})  
78 console.log(a)
```

Playground Result

1 undefined

HELP AND FEEDBACK

- What's New
- Extension Documentation
- Documentation



PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Playground output

```
{  
  cursorHasMore: true,  
  documents: [  
    {  
      _id: {},  
      name: 'Harrys web dev free course',  
      price: 0,  
      assignments: 12,  
    }  
  ]  
}
```



MONGODB

CONNECTIONS

- CrudDb
 - courses
 - Documents 2
 - Schema
 - Indexes
 - local
 - mongodbVSCodePlaygro...

PLAYGROUNDS

No MongoDB playground files found in the workspace.

Create New Playground

```
JS crud.mongodb.js > ...  
75  
76  
77 let a = db.courses.find({price:  
78   0})  
79 console.log(a.count())
```

Playground Result

1 undefined

HELP AND FEEDBACK

- What's New
- Extension Documentation
- Documentation

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

46

Playground output

MONGODB

CONNECTIONS

- CrudDb
 - courses
 - Documents 2
 - Schema
 - Indexes
 - local
 - mongodbVSCodePlaygro...

PLAYGROUNDS

No MongoDB playground files found in the workspace.

Create New Playground

```
JS crud.mongodb.js > ...
10  })
11
12  > db.courses.insertMany([ ...
74  )
75
76
77  let a = db.courses.find({price:
78  0})
79  console.log(a.toArray())
```

Playground Result

1 undefined

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Playground output

```
[
  {
    _id: {},
    name: 'Harrys web dev free course',
    price: 0,
    assignments: 12,
    projects: 45
  },
]
```

HELP AND FEEDBACK

- What's New
- Extension Documentation
- Documentation

MONGODB

CONNECTIONS

- CrudDb
 - courses
 - Documents 2
 - Schema
 - Indexes
 - local
 - mongodbVSCodePlaygro...

PLAYGROUNDS

No MongoDB playground files found in the workspace.

Create New Playground

HELP AND FEEDBACK

- What's New
- Extension Documentation
- Documentation



```
JS crud.mongodb.js > ...
74 )
75
76
77 // let a = db.courses.find({price: 0})
78
79 // console.log(a.toArray())
80
81 let b = db.courses.findOne({price: 0})
82
83 console.log(b)
```

Playground Result

1 undefined

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Playground output

```
{
  _id: {},
  name: 'Harrys web dev free course',
  price: 0,
  assignments: 12,
  projects: 45
}
```

b.toArray is not a function

MONGODB

CONNECTIONS

- CrudDb
 - courses
 - Documents 2
 - Schema
 - Indexes
 - local
 - mongodbVSCodePlaygro...

PLAYGROUNDS

No MongoDB playground files found in the workspace.

Create New Playground

HELP AND FEEDBACK

- What's New
- Extension Documentation
- Documentation

```
JS crud.mongodb.js > ...
13  })
14
15  > db.courses.insertMany([ ...
77  )
78
79  // READ
80  let a = db.courses.find({price: 0})
81
82  console.log(a.toArray())
83
84  let b = db.courses.findOne({price: 0})
85
86  console.log(b)
87
88  // UPDATE
89
90
91
92  // DELETE
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Playground output

```
{
  _id: {},
  name: 'Harrys web dev free course',
  price: 0,
  assignments: 12,
  projects: 45
}
```



EXPLORER

VIDEO 95

JS crud.mongodb.js

JS crud.mongodb.js > ...

```
87
88 // UPDATE
89
90 db.courses.updateOne({price: 0},
91   {$set:{price: 100}})
92
93 // DELETE
```

{ } Playground Result

```
1 {
2   "acknowledged": true,
3   "insertedId": null,
4   "matchedCount": 1,
5   "modifiedCount": 1,
6   "upsertedCount": 0
7 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Playground output



EXPLORER

VIDEO 95

JS crud.mongodb.js

JS crud.mongodb.js > \$set > price

```
87
88 // UPDATE
89
90 db.courses.updateOne({price: 0},
91   {$set:{price: 100}})
92
93 db.courses.updateMany({price: 0},
94   {$set:{price: 1000}})
95
96 // DELETE
```

Playground Result

```
1 {
2   "acknowledged": true,
3   "insertedId": null,
4   "matchedCount": 1,
5   "modifiedCount": 1,
6   "upsertedCount": 0
7 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Playground output

Ln 92, Col 53 Spaces: 4 UTF-8 CRLF {} JavaScript



EXPLORER

VIDEO 95

JS crud.mongodb.js

```
JS crud.mongodb.js > ...
90 // db.courses.updateOne({price:
    0}, {$set:{price: 100}})
91
92 // db.courses.updateMany({price:
    0}, {$set:{price: 1000}})
93
94
95 // DELETE
96
97 db.courses.deleteOne({price: 100})
```

Playground Result

```
{
  "acknowledged": true,
  "deletedCount": 1
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Playground output

Ln 3, Col 20 (4 selected) Spaces: 2 {} JSON





EXPLORER

VIDEO 95

JS crud.mongodb.js



Course\Video 95\playground-1.mongodb.js

JS crud.mongodb.js

JS crud.mongodb.js > ...

```
94
95 // DELETE
96
97 db.courses.deleteOne({price:
1000})
98
99 db.courses.deleteMany({price:
1000})
```

{ } Playground Result

```
1 {
2   "acknowledged": true,
3   "deletedCount": 35
4 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

Playground output

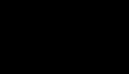
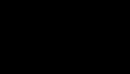
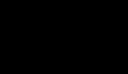
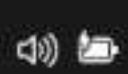
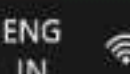
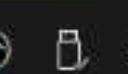
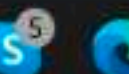
Ln 3, Col 19

Spaces: 2

{ } JSON



Search



Reference

- Collation
- Configuration File Options
- Connection Strings
- Database Commands
- Default MongoDB Port
- Default MongoDB Read Concerns/Write Concerns
- Exit Codes and Statuses
- Error Codes
- Explain Results
- Glossary
- Log Messages
- MongoDB Cluster Parameters
- MongoDB Limits and Thresholds
- MongoDB Package Components
- MongoDB Server Parameters
- MongoDB Shell

Docs Home → Develop Applications → MongoDB Manual

Operators

You can run aggregation pipelines in the UI for deployments hosted in MongoDB Atlas.

To learn which operators are unsupported in MongoDB Atlas, see [Unsupported Commands in Atlas](#).

Operator Resources

Query and Projection Operators

Query operators provide ways to locate data within the database and projection operators modify how data is presented.

Update Operators

Update operators are operators that enable you to modify the data in your database or add additional data.

Aggregation Stages

Available aggregation stages for [Aggregation Pipeline](#).

Aggregation Operators

Aggregation pipeline operations have a collection of operators available to define and manipulate documents in pipeline stages.

On this page

Operator Resources

← `db.collection.updateSearchIndex()`

`Query and Projection Operators` →

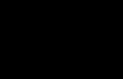
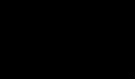
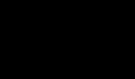
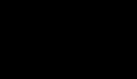
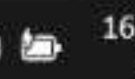
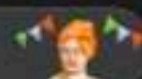


https://www.m...

13°C Cloudy



Search



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MongoDB Documentation

MongoDB Manual

7.0 (current)

- Introduction
- Installation
- MongoDB Shell (mongosh)
- MongoDB CRUD Operations
- Aggregation Operations
- Data Modeling
- Indexes
- Security
- Replication
- Sharding
- Change Streams
- Time Series
- Transactions
- Advanced Topics

Docs Home → MongoDB Manual

Query and Projection Operators

NOTE

For details on a specific operator, including syntax and examples, click on the link to the operator's reference page.

On this page

- Compatibility
- Query Selectors
- Projection Operators
- Miscellaneous Operators

Compatibility

You can use query and projection operators for deployments hosted in the following environments:

- [MongoDB Atlas](#): The fully managed service for MongoDB deployments in the cloud
- [MongoDB Enterprise](#): The subscription-based, self-managed version of MongoDB
- [MongoDB Community](#): The source-available, free-to-use, and self-managed version of MongoDB

TIP

You can use operators when querying your data with [mongosh](#) methods, the [Atlas UI](#), or [Compass](#).

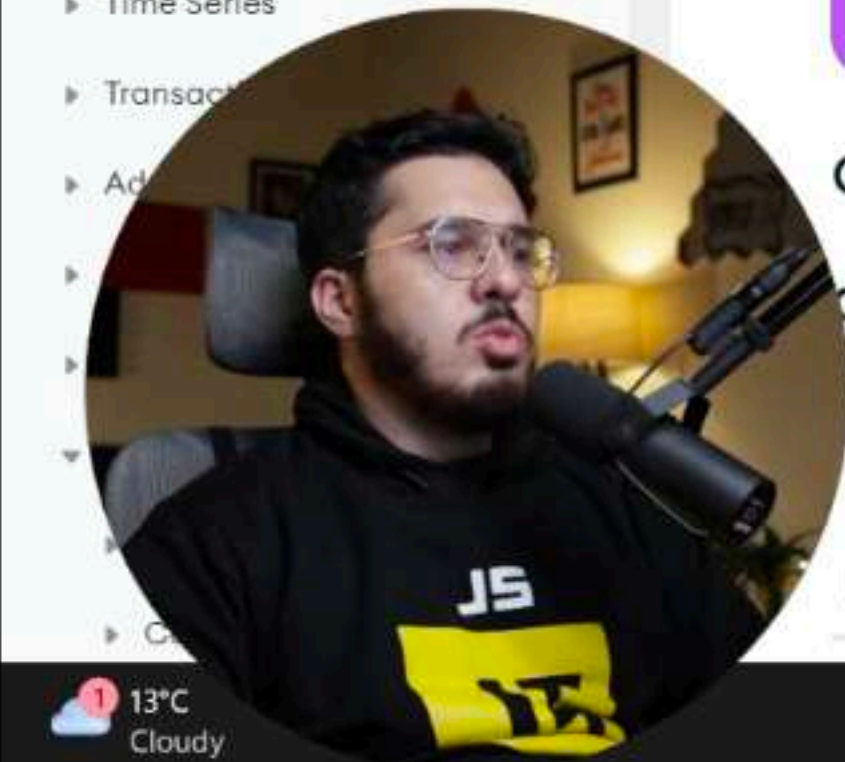
Query Selectors

Comparison

For comparison of different BSON type values, see the [specified BSON comparison order](#).

Name	Description
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MongoDB Documentation

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Comparison

For comparison of different BSON type values, see the [specified BSON comparison order](#).

Name	Description
<code>\$eq</code>	Matches values that are equal to a specified value.
<code>\$gt</code>	Matches values that are greater than a specified value.
<code>\$gte</code>	Matches values that are greater than or equal to a specified value.
<code>\$in</code>	Matches any of the values specified in an array.
<code>\$lt</code>	Matches values that are less than a specified value.
<code>\$lte</code>	Matches values that are less than or equal to a specified value.
<code>\$ne</code>	Matches all values that are not equal to a specified value.
<code>\$nin</code>	Matches none of the values specified in an array.

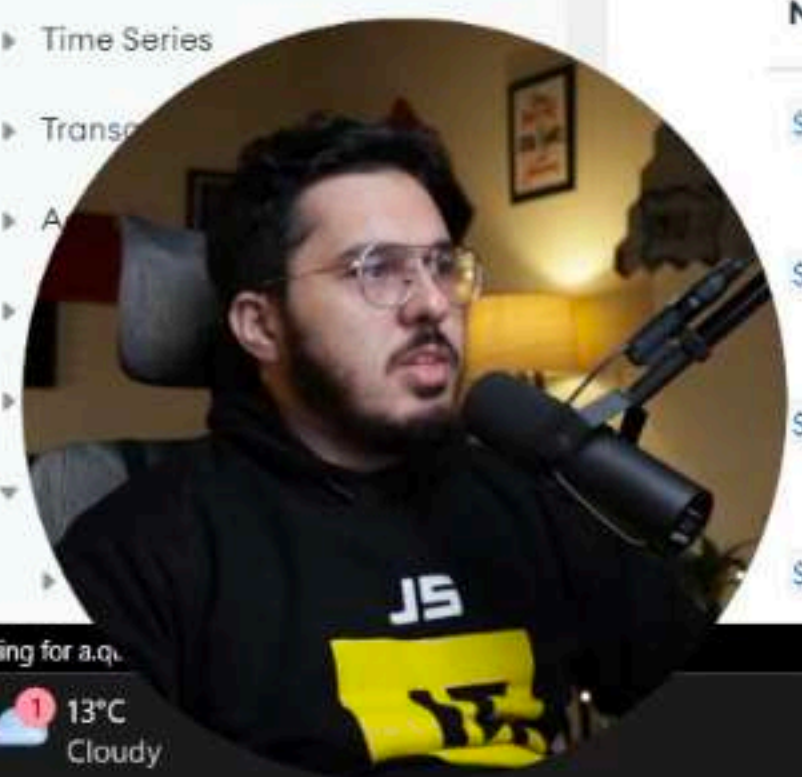
Logical

Name	Description
<code>\$and</code>	Joins query clauses with a logical AND returns all documents that match the conditions of both clauses.
<code>\$not</code>	Inverts the effect of a query expression and returns documents that do <i>not</i> match the query expression.
<code>\$nor</code>	Joins query clauses with a logical NOR returns all documents that fail to match both clauses.
<code>\$or</code>	Joins query clauses with a logical OR returns all documents that match the conditions of either clause.

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