





glowing-space-acorn-v6wj5p54q626pr5.github.dev

db.createCollection('users')

```
1 db.createCollection('users')
```

Playground Result

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

Collection successfully dropped.

db.users.insertMany()

```
1 db.users.insertMany([
2   { name: 'user1', age: 30, email: 'user1@example.com' },
3   { name: 'user2', age: 25, email: 'user2@example.com' },
4   { name: 'user3', age: 28, email: 'user3@example.com' }
5 ])
```

Playground Result

```
1 {
2   "acknowledged": true,
3   "insertedIds": {
4     "0": {
5       "objectId": "64dd6ee948af8b3fd88c997d"
6     },
7     "1": {
8       "objectId": "64dd6ee948af8b3fd88c997e"
9     },
10    "2": {
11      "objectId": "64dd6ee948af8b3fd88c997f"
12    }
13  }
14 }
```

Collection successfully dropped.

Cloud MongoDB Atlas interface showing the 'test.users' collection. The interface includes a sidebar with navigation options like Deployment, Services, and Security. The main area displays the 'test.users' collection with a query filter and results. The results show two documents:

```
{ "_id": ObjectId("64dd6ee948af8b3fd88c997d"), "name": "user1", "age": 30, "email": "user1@example.com" }
{ "_id": ObjectId("64dd6ee948af8b3fd88c997e"), "name": "user2", "age": 25, "email": "user2@example.com" }
```

VS Code interface showing a MongoDB playground. The left sidebar displays the 'test' database and 'users' collection. The main editor shows a JavaScript script for inserting documents into the 'users' collection:

```
1 db.users.insertMany([
2   {
3     "_id": {
4       "$oid": "64dd6ee948af8b3fd88c997d"
5     },
6     "name": "user1",
7     "age": 30,
8     "email": "user1@example.com"
9   },
10  {
11    "_id": {
12      "$oid": "64dd6ee948af8b3fd88c997e"
13    },
14    "name": "user2",
15    "age": 25,
16    "email": "user2@example.com"
17  },
18  {
19    "_id": {
20      "$oid": "64dd6ee948af8b3fd88c997f"
21    },
22    "name": "user3",
23    "age": 28,
24    "email": "user3@example.com"
25  }
26 ])
```

The bottom status bar indicates 'Collection successfully dropped.'

Visual Studio Code interface showing a MongoDB playground session. The left sidebar displays the Explorer view with a tree structure of connections and playgrounds. The main editor area shows a JavaScript file named `db.users.find({ age: { $lt: 30 } })` being executed. The output pane displays the result of the query, showing two documents with IDs, names, ages, and emails. A notification at the bottom right indicates "Collection successfully dropped."

```
1 db.users.find({ age: { $lt: 30 } })
```

```
1 {
2   "_id": {
3     "$oid": "64dd6ee948af8b3fd88c997e"
4   },
5   "name": "user2",
6   "age": 25,
7   "email": "user2@example.com"
8 },
9 {
10  "_id": {
11    "$oid": "64dd6ee948af8b3fd88c997f"
12  },
13  "name": "user3",
14  "age": 28,
15  "email": "user3@example.com"
16 },
17 }
18 ]
```

Visual Studio Code interface showing a MongoDB playground session. The left sidebar displays the Explorer view with a tree structure of connections and playgrounds. The main editor area shows a JavaScript file named `db.users.updateOne({ name: 'user1' }, { $set: { age: 31 } })` being executed. The output pane displays the result of the update operation, showing the document with the updated age and other metadata. A notification at the bottom right indicates "Collection successfully dropped."

```
1 db.users.updateOne({ name: 'user1' }, { $set: { age: 31 } })
```

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

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db.users.deleteOne({ name: 'user2' })

```
1 db.users.deleteOne({ name: 'user2' })
```

Playground Result

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

Collection successfully dropped.

Ln 1, Col 38 Spaces: 4 UTF-8 LF JavaScript Layout: US 17:53 16-08-2023

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db.users.aggregate([{ \$group: { _id: null, avgAge: { \$avg: '\$age' } } }])

```
1 db.users.aggregate([
2   { $group: { _id: null, avgAge: { $avg: '$age' } } }
3 ])
```

Playground Result

```
1 [
2   {
3     "_id": null,
4     "avgAge": 29.5
5   }
6 ]
```

Collection successfully dropped.

Ln 3, Col 5 Spaces: 4 UTF-8 LF JavaScript Layout: US 17:53 16-08-2023

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db.users.createIndex(email: 1)

```
1 db.users.createIndex( email: 1 )
2
```

email_1

Collection successfully dropped.

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db.users.createIndex(name: 'text', email: 'text')

```
1 db.users.createIndex( name: 'text', email: 'text' )
2 db.users.find( { $text: { $search: 'user1' } } )
```

```
1 {
2   "_id": {
3     "$oid": "64dd6ee948af8b3fd88c997d"
4   },
5   "name": "user1",
6   "age": 31,
7   "email": "user1@example.com"
8 }
9
10
```

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db.users.find().sort({ age: -1 })

```
1 db.users.find().sort({ age: -1 })
```

```
1 {
2   "_id": {
3     "$oid": "64dd6ee948af8b3fd88c997d"
4   },
5   "name": "user1",
6   "age": 31,
7   "email": "user1@example.com"
8 },
9 {
10  "_id": {
11    "$oid": "64dd6ee948af8b3fd88c997f"
12  },
13  "name": "user3",
14  "age": 28,
15  "email": "user3@example.com"
16 },
17 ]
```

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```
1 /* global use, db */
2 // MongoDB Playground
3 // To disable this template go to Settings | MongoDB | Use Default Template
4 // Make sure you are connected to enable completions and to be able to
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
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('2014-04-04') },
18   { 'item': 'jkl', 'price': 20, 'quantity': 1, 'date': new Date('2014-04-05') },
19   { 'item': 'xyz', 'price': 5, 'quantity': 10, 'date': new Date('2014-04-06') },
20   { 'item': 'xyz', 'price': 5, 'quantity': 20, 'date': new Date('2014-04-07') },
21   { 'item': 'abc', 'price': 10, 'quantity': 10, 'date': new Date('2014-04-08') },
22   { 'item': 'def', 'price': 7.5, 'quantity': 5, 'date': new Date('2014-04-09') },
23   { 'item': 'def', 'price': 7.5, 'quantity': 10, 'date': new Date('2014-04-10') },
24   { 'item': 'abc', 'price': 10, 'quantity': 5, 'date': new Date('2014-04-11') }
25 ]);
26
27 // Run a find command to view items sold on April 4th, 2014.
28 const salesOnApril4th = db.getCollection('sales').find({
29   date: { $gte: new Date('2014-04-04'), $lt: new Date('2014-04-05') }
30 });
31
32 console.log(salesOnApril4th);
```

```
1 {
2   "_id": "abc",
3   "totalSaleAmount": 120
4 },
5 {
6   "_id": "jkl",
7   "totalSaleAmount": 20
8 },
9 {
10  "_id": "xyz",
11  "totalSaleAmount": 150
12 },
13 ]
```

2 sales occurred in 2014.

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db.users.aggregate([/workspaces/cs628-summer-hos07-ajnaik44/playground-1.mongodb.js

```
1 db.users.aggregate([
2   { $group: { _id: '$age', count: { $sum: 1 } } },
3   { $sort: { _id: 1 } }
4 ]])
```

Playground Result

```
1 {
2   "_id": 28,
3   "count": 1
4 },
5 {
6   "_id": 31,
7   "count": 1
8 }
9 ]
10 ]
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

Playground output

Ln 4, Col 5 Spaces: 4 UTF-8 LF JavaScript Layout: US 17:56 16-08-2023

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db.users.aggregate([/workspaces/cs628-summer-hos07-ajnaik44/playground-1.mongodb.js

```
1 db.users.aggregate([
2   { $group: { _id: null, maxAge: { $max: '$age' }, minAge: { $min:
3   } } }
4 ]])
```

Playground Result

```
1 {
2   "_id": null,
3   "maxAge": 31,
4   "minAge": 28
5 }
6 ]
7 ]
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

Playground output

Ln 4, Col 1 Spaces: 4 UTF-8 LF JavaScript Layout: US 17:56 16-08-2023

Visual Studio Code interface showing a MongoDB playground. The left sidebar displays the 'CONNECTIONS' panel with a tree view of databases and collections. The main editor area shows a JavaScript file named 'db.places.insertMany()' with the following code:

```
1 db.places.insertMany([
2   { name: 'Park A', location: { type: 'Point', coordinates: [0, 0] } },
3   { name: 'Park B', location: { type: 'Point', coordinates: [1, 1] } },
4   { name: 'Cafe C', location: { type: 'Point', coordinates: [2, 2] } }
5 ])
6
7 db.places.createIndex({ location: '2dsphere' })
8
9 db.places.find({
10   location: {
11     $nearSphere: {
12       $geometry: {
13         type: 'Point',
14         coordinates: [0, 0]
15       },
16       $maxDistance: 2000 // meters
17     }
18   }
19 })
```

The right sidebar shows the 'PLAYGROUND RESULT' panel, displaying the JSON output of the query:

```
1 {
2   "_id": {
3     "oid": "64dd70583395aa3845a04728"
4   },
5   "name": "Park A",
6   "location": {
7     "type": "Point",
8     "coordinates": [
9       0,
10      0
11    ]
12  }
13 }
14
15 }
```

The bottom status bar indicates the file is 'main.js' and the editor is in 'JavaScript' mode.

Visual Studio Code interface showing a MongoDB playground. The left sidebar displays the 'CONNECTIONS' panel with a tree view of databases and collections. The main editor area shows a JavaScript file named 'db.users.find()' with the following code:

```
1 db.users.find({
2   $or: [
3     { name: { $regex: 'u', $options: 'i' } },
4     { name: { $regex: 'c', $options: 'i' } }
5   ]
6 })
```

The right sidebar shows the 'PLAYGROUND RESULT' panel, displaying the JSON output of the query:

```
1 {
2   "_id": {
3     "oid": "64dd6ee948af8b3fd88c997d"
4   },
5   "name": "user1",
6   "age": 31,
7   "email": "user1@example.com"
8 },
9
10 {
11   "_id": {
12     "oid": "64dd6ee948af8b3fd88c997f"
13   },
14   "name": "user3",
15   "age": 28,
16   "email": "user3@example.com"
17 }
18 }
```

The bottom status bar indicates the file is 'main.js' and the editor is in 'JavaScript' mode.

Visual Studio Code interface showing a MongoDB playground session. The left sidebar displays the Explorer view with a project structure including 'CONNECTIONS' (cs628ajay.Soeznm.mongodb.net, admin, CS628Practice, local, mongodbVSCodePlaygroundDB, test) and 'PLAYGROUNDS' (/workspaces/cs628-summer-hos07-ajnaik44, hos07.mongodb.js). The main editor area shows a JavaScript file named 'db.users.aggregate()' with the following code:

```
1 db.users.aggregate([
2   { $group: { _id: null, totalAge: { $sum: '$age' } } }
3 ])
```

The right sidebar shows the 'Playground Result' tab with the output:

```
1 {
2   "_id": null,
3   "totalAge": 59
4 }
5 ]
6 ]
```

The bottom status bar indicates the file is 'db.users.aggregate()' in the 'mongodbVSCodePlaygroundDB' workspace, with a cursor at line 3, column 5. The bottom of the window shows the Windows taskbar with various application icons and the system clock at 17:57 on 16-08-2023.

Visual Studio Code interface showing a MongoDB playground session. The left sidebar displays the Explorer view with a project structure including 'CONNECTIONS' (cs628ajay.Soeznm.mongodb.net, admin, CS628Practice, local, mongodbVSCodePlaygroundDB, test) and 'PLAYGROUNDS' (/workspaces/cs628-summer-hos07-ajnaik44, hos07.mongodb.js). The main editor area shows a JavaScript file named 'db.users.drop()' with the following code:

```
1 db.users.drop()
```

The right sidebar shows the 'Playground Result' tab with the output:

```
1 true
```

The bottom status bar indicates the file is 'db.users.drop()' in the 'mongodbVSCodePlaygroundDB' workspace, with a cursor at line 1, column 16. The bottom of the window shows the Windows taskbar with various application icons and the system clock at 17:58 on 16-08-2023.

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MONSODB

CONNECTIONS

- cs628ajay.Soezhm.mongodb.net con...
- admin
- CS628Practice
- local
- mongodbVSCodePlaygroundDB
- test

PLAYGROUNDS

- /workspaces/cs628-summer-hos07-ajnaik44
- hos07.mongodb.js

HELP AND FEEDBACK

- What's New
- Extension Documentation
- MongoDB Documentation
- Suggest a Feature
- Report a Bug
- Create Free Atlas Cluster

show dbs

Currently connected to cs628ajay.Soezhm.mongodb.net. Click here to change connection.

```
1 show dbs
2
3 {
4   "name": "CS628Practice",
5   "sizeOnDisk": 8192,
6   "empty": false
7 },
8 {
9   "name": "mongodbVSCodePlaygroundDB",
10  "sizeOnDisk": 40960,
11  "empty": false
12 },
13 {
14   "name": "test",
15   "sizeOnDisk": 61440,
16   "empty": false
17 },
18 {
19   "name": "admin",
20   "sizeOnDisk": 344064,
21   "empty": false
22 },
23 {
24   "name": "local",
25   "sizeOnDisk": 2728243200,
26   "empty": false
27 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

Playground output

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MONSODB

CONNECTIONS

- cs628ajay.Soezhm.mongodb.net con...
- admin
- CS628Practice
- local
- mongodbVSCodePlaygroundDB
- test

PLAYGROUNDS

- /workspaces/cs628-summer-hos07-ajnaik44
- hos07.mongodb.js

HELP AND FEEDBACK

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- Report a Bug
- Create Free Atlas Cluster

show collections

Currently connected to cs628ajay.Soezhm.mongodb.net. Click here to change connection.

```
1 show collections
2
3 {
4   "name": "places",
5   "badge": ""
6 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

Playground output