



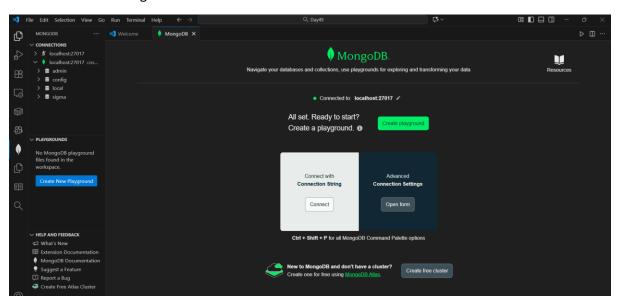


"Web Development + Security"

CRUD operations in MongoDB:

CRUD operations (Create, Read, Update, Delete).

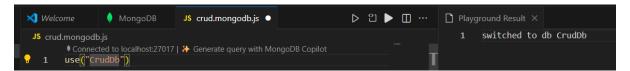
First connect the MongoDb to the VScode:



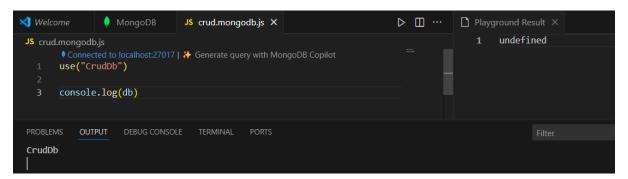
Now, we are creating our own playground: file name be crud.mongodb.js



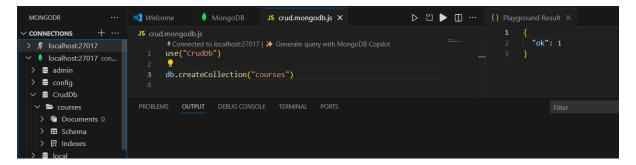
Now, suppose we want to use the Db named "CrudDb" (it may not exists), then we will use the following code: clearly, it switched to CrudDb Db.



Now, to see which Db we are using, we can use console.log(db), as shown below: clearly it says CrudDb is used.



Now, in order to create a new collection in the CrudDb, we will use createCollection, as shown below: clearly it worked as expected.



Now, in order to insert a document in the collection we will use the .insertOne, as shown below:

Code:

Playground result:

DB json:

```
      CONNECTIONS
      + ...

      Image: local lo
```

Now, similarly, insert the next document: make sure to comment out earlier one otherwise it will get repeated.

```
JS crud.mongodb.js > ...

Connected to localhost:27017 |  Generate query with MongoDB Copilot

use("CrudDb")

db.createCollection("courses")

// db.courses.insertOne({
    // name: "Aditya course",
    // price: 0,
    // assignment: 12,
    // projects: 46

// bb.courses.insertOne({
    name: "Utsav course",
    price: 0,
    assignment: 14,
    projects: 36

// projects: 36
```

Now, suppose we want to find those courses where the price is 0, then we will use .find() as shown below:

Now, suppose we want to count the number of results returned by above "a", since it is a cursor, we can count using .count(), as shown below: so basically in the Db we have 2 documents whose price is 0.

```
22 let a = db.courses.find({price:0})
23 console.log(a.count())

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
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```

Now, in order to get all the Documents in the form of array we will use: .toArray()

```
let a = db.courses.find({price:0})
     console.log(a.toArray())
23
         OUTPUT
                 DEBUG CONSOLE
                                TERMINAL
   id: ObjectId('68f30512f028b447d6c1b1cf'),
  name: 'Aditya course',
   price: 0,
   assignment: 12,
   projects: 46
   _id: ObjectId('68f30603412afd80a18311c1'),
   name: 'Utsav course',
   price: 0,
   assignment: 14,
   projects: 36
 }
```

Now, in case we want to get the first result whose price is 0, we will use .findOne() as shown below:

```
25  let a = db.courses.findOne({price:0})
26  console.log(a)

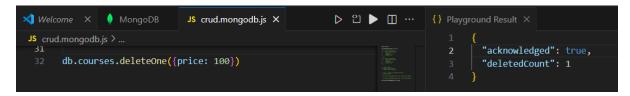
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

{
    _id: ObjectId('68f30512f028b447d6c1b1cf'),
    name: 'Aditya course',
    price: 0,
    assignment: 12,
    projects: 46
}
```

Now, in case we want to update the value we will use .updateOne, as shown below:

Now, in case we want to update all documents matching the condition, we will use .udpateMany() as shown below:

Now, in case we want to delete the documents matching a certain condition we will use .deleteOne(), as shown below:



--The End--