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1
2 //to use any collection
3 // use db_name
4
5 // => Insert Operation
6
7 //our data
8 db.inventory.insertMany([
9   { item: "journal", qty: 25, size: { h: 14, w: 21, uom: "cm" }, status: "A" },
10  { item: "notebook", qty: 50, size: { h: 8.5, w: 11, uom: "in" }, status: "A" },
11  { item: "paper", qty: 100, size: { h: 8.5, w: 11, uom: "in" }, status: "D" },
12  { item: "planner", qty: 75, size: { h: 22.85, w: 30, uom: "cm" }, status: "D" },
13  { item: "postcard", qty: 45, size: { h: 10, w: 15.25, uom: "cm" }, status: "A" }
14 ]);
15
16
17 db.inventory.insertOne(
18   { item: "canvas", qty: 100, tags: ["cotton"], size: { h: 28, w: 35.5, uom: "cm" } }
19 )
20
21 db.inventory.insertMany([
22   { item: "journal", qty: 25, tags: ["blank", "red"], size: { h: 14, w: 21, uom: "cm" } },
23   { item: "mat", qty: 85, tags: ["gray"], size: { h: 27.9, w: 35.5, uom: "cm" } },
24   { item: "mousepad", qty: 25, tags: ["gel", "blue"], size: { h: 19, w: 22.85, uom: "cm" } }
25 ])
26
27
28 // => Read operation
29
30 //You can query documents in MongoDB by using the following methods:
31
32 db.inventory.find( {} ) //To select all documents in the collection, pass an empty document as the query filter parameter to
the find method.
33
34 //Specify Equality Condition
35 // { <field1>: <value1>, ... }
36 db.inventory.find( { status: "D" } )
37
38 //The following example retrieves all documents from the inventory collection where status equals either "A" or "D":
39 db.inventory.find( { status: { $in: [ "A", "D" ] } } ) //use the $in operator rather than the $or operator when performing
equality checks on the same field.
40
41
42 //AND OPERATOR
43 // The following example retrieves all documents in the inventory collection where the status equals "A" and qty is less than
($lt) 30:
44 db.inventory.find( { status: "A", qty: { $lt: 30 } } )
45
46 //OR OPERATOR
47 // The following example retrieves all documents in the collection where the status equals "A" or qty is less than ($lt) 30:
48 db.inventory.find( { $or: [ { status: "A" }, { qty: { $lt: 30 } } ] } )
49
50
51 //Specify AND as well as OR Conditions
52
53 //In the following example, the compound query document selects all documents in the collection where the status equals "
A" and either qty is less than ($lt) 30 or item starts with the character p:
54 db.inventory.find( {

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55     status: "A",
56     $or: [ { qty: { $lt: 30 } }, { item: /^p/ } ]
57   } )
58
59 // => Update operation
60
61 //This page uses the following
62 // mongosh methods:
63 db.inventory.insertMany( [
64   { item: "canvas", qty: 100, size: { h: 28, w: 35.5, uom: "cm" }, status: "A" },
65   { item: "journal", qty: 25, size: { h: 14, w: 21, uom: "cm" }, status: "A" },
66   { item: "mat", qty: 85, size: { h: 27.9, w: 35.5, uom: "cm" }, status: "A" },
67   { item: "mousepad", qty: 25, size: { h: 19, w: 22.85, uom: "cm" }, status: "P" },
68   { item: "notebook", qty: 50, size: { h: 8.5, w: 11, uom: "in" }, status: "P" },
69   { item: "paper", qty: 100, size: { h: 8.5, w: 11, uom: "in" }, status: "D" },
70   { item: "planner", qty: 75, size: { h: 22.85, w: 30, uom: "cm" }, status: "D" },
71   { item: "postcard", qty: 45, size: { h: 10, w: 15.25, uom: "cm" }, status: "A" },
72   { item: "sketchbook", qty: 80, size: { h: 14, w: 21, uom: "cm" }, status: "A" },
73   { item: "sketch pad", qty: 95, size: { h: 22.85, w: 30.5, uom: "cm" }, status: "A" }
74 ] );
75 // db.collection.updateOne(<filter>, <update>, <options>)
76 // db.collection.updateMany(<filter>, <update>, <options>)
77 // db.collection.replaceOne(<filter>, <update>, <options>)
78
79
80 //Update one file
81 //The following example uses the db.collection.updateOne() method on the inventory collection to update the first document
82 //where item equals "paper":
83 db.inventory.updateOne(
84   { item: "paper" },
85   {
86     $set: { "size.uom": "cm", status: "P" },
87     $currentDate: { lastModified: true }
88   }
89 )
90 /*The update operation:
91
92 uses the $set operator to update the value of the size.uom field to "cm" and the value of the status field to "P",
93
94 uses the $currentDate operator to update the value of the lastModified field to the current date. If lastModified field does not
95 exist, $currentDate will create the field. See $currentDate for details. */
96
97 //Update Multiple file
98 // The following example uses the db.collection.updateMany() method on the inventory collection to update all documents
99 //where qty is less than 50:
100 db.inventory.updateMany(
101   { "qty": { $lt: 50 } },
102   {
103     $set: { "size.uom": "in", status: "P" },
104     $currentDate: { lastModified: true }
105   }
106 )
107
108 //Replace a Document
109 // To replace the entire content of a document except for the _id field, pass an entirely new document as the second argument
110 // to => db.collection.replaceOne().
111 db.inventory.replaceOne(
112   { item: "paper" },
113   { item: "paper", instock: [ { warehouse: "A", qty: 60 }, { warehouse: "B", qty: 40 } ] }

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112 //The following example replaces the first document from the inventory collection where item: "paper":
113
114
115 //=> Delete Operation
116
117 //The following example removes all documents from the inventory collection where the status field equals "A":
118 db.inventory.deleteMany({ status : "A" })
119
120 //To delete at most a single document that matches a specified filter (even though multiple documents may match the
    specified filter) use the db.collection.deleteOne() method.
121
122 // The following example deletes the first document where status is "D":
123 db.inventory.deleteOne( { status: "D" } )
124
125
126 // To delete all documents from a collection, pass an empty filter document {} to the db.collection.deleteMany() method.
127 db.inventory.deleteMany({})
128
129
130
131 //Other important operation
132 db.scores.insertMany([
133     { "_id" : 1, "team" : "Fearful Mallards", "score" : 25000 },
134     { "_id" : 2, "team" : "Tactful Mooses", "score" : 23500 },
135     { "_id" : 3, "team" : "Aquatic Ponies", "score" : 19250 },
136     { "_id" : 4, "team" : "Cuddly Zebras", "score" : 15235 },
137     { "_id" : 5, "team" : "Garrulous Bears", "score" : 18000 }
138 ]);
139
140 // The following operation finds a document with score less than 20000 and replaces it:
141 db.scores.findOneAndReplace(
142     { "score" : { $lt : 20000 } },
143     { "team" : "Observant Badgers", "score" : 20000 }
144 )

```