

```
// mongo ass1 CRUD
```

```
Microsoft Windows [Version 10.0.22631.4391]  
(c) Microsoft Corporation. All rights reserved.
```

```
C:\Users\ADMIN>mongod --version  
db version v8.0.3  
Build Info: {  
  "version": "8.0.3",  
  "gitVersion": "89d97f2744a2b9851ddfb51bdf22f687562d9b06",  
  "modules": [],  
  "allocator": "tcmalloc-gperf",  
  "environment": {  
    "distmod": "windows",  
    "distarch": "x86_64",  
    "target_arch": "x86_64"  
  }  
}
```

```
C:\Users\ADMIN>mongosh  
Current Mongosh Log ID: 672a2da60b146f0f4c0d818f  
Connecting to:  
mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.3.3  
Using MongoDB:      8.0.3  
Using Mongosh:      2.3.3
```

For mongosh info see: <https://www.mongodb.com/docs/mongodb-shell/>

To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (<https://www.mongodb.com/legal/privacy-policy>).  
You can opt-out by running the `disableTelemetry()` command.

```
-----  
The server generated these startup warnings when booting  
2024-11-05T19:59:55.011+05:30: Access control is not enabled for the database.  
Read and write access to data and configuration is unrestricted  
-----
```

```
test> use tea55  
switched to db tea55  
tea55> show db  
MongoshInvalidInputError: [COMMON-10001] 'db' is not a valid argument for "show".  
tea55> show databases  
admin    40.00 KiB  
config   60.00 KiB  
local    40.00 KiB  
tea55> db.students.insertOne({name: "Ram", age:12})  
{
```

```

acknowledged: true,
insertedId: ObjectId('672a30420b146f0f4c0d8190')
}
tea55> db.students.find()
[ { _id: ObjectId('672a30420b146f0f4c0d8190'), name: 'Ram', age: 12 } ]
tea55> db.students.insertMany([{name:"Piyush", age:21},{name:"Kushal", age:21},
[{name:"Vivek", age:18}]]
Uncaught:
SyntaxError: Unexpected token, expected ",", (1:98)

> 1 | db.students.insertMany([{name:"Piyush", age:21},{name:"Kushal", age:21},
    |                               ^
    2 |
tea55> db.students.insertMany([{name:"Piyush", age:21},{name:"Kushal", age:21},
{name:"Vivek", age:18}]]
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('672a30ea0b146f0f4c0d8191'),
    '1': ObjectId('672a30ea0b146f0f4c0d8192'),
    '2': ObjectId('672a30ea0b146f0f4c0d8193')
  }
}

new_db> use tea55
switched to db tea55
tea55> show collections
new_db
students
tea55> db.createCollection("test collection")
{ ok: 1 }
tea55> db.new_db.drop()
true
tea55> show collections
students
test collection
tea55> db.students.find()
[
  { _id: ObjectId('672a30420b146f0f4c0d8190'), name: 'Ram', age: 12 },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8191'),
    name: 'Piyush',
    age: 21
  },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8192'),
    name: 'Kushal',
    age: 21
  }
]

```

```


    },
    { _id: ObjectId('672a30ea0b146f0f4c0d8193'), name: 'Vivek', age: 18 }
  ]
tea55> db.students.insertMany([{"name":"Tom", age:11},{name:"Tunnu", age:11}])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('672a349d0b146f0f4c0d8194'),
    '1': ObjectId('672a349d0b146f0f4c0d8195')
  }
}
tea55> db.students.find()
[
  { _id: ObjectId('672a30420b146f0f4c0d8190'), name: 'Ram', age: 12 },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8191'),
    name: 'Piyush',
    age: 21
  },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8192'),
    name: 'Kushal',
    age: 21
  },
  { _id: ObjectId('672a30ea0b146f0f4c0d8193'), name: 'Vivek', age: 18 },
  { _id: ObjectId('672a349d0b146f0f4c0d8194'), name: 'Tom', age: 11 },
  { _id: ObjectId('672a349d0b146f0f4c0d8195'), name: 'Tunnu', age: 11 }
]
tea55> db.students.find({age:11})
[
  { _id: ObjectId('672a349d0b146f0f4c0d8194'), name: 'Tom', age: 11 },
  { _id: ObjectId('672a349d0b146f0f4c0d8195'), name: 'Tunnu', age: 11 }
]
tea55> db.students.findOne({age:11})
{ _id: ObjectId('672a349d0b146f0f4c0d8194'), name: 'Tom', age: 11 }
tea55> db.students.find().count()
6
tea55> db.students.find({age:{$lt:15}})
[
  { _id: ObjectId('672a30420b146f0f4c0d8190'), name: 'Ram', age: 12 },
  { _id: ObjectId('672a349d0b146f0f4c0d8194'), name: 'Tom', age: 11 },
  { _id: ObjectId('672a349d0b146f0f4c0d8195'), name: 'Tunnu', age: 11 }
]
tea55> db.students.find({age:{$lt:15}}).count()
3
tea55> db.students.find({age:{$gt:15}})
[
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8191'),
    name: 'Piyush',

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```

    age: 21
  },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8192'),
    name: 'Kushal',
    age: 21
  },
  { _id: ObjectId('672a30ea0b146f0f4c0d8193'), name: 'Vivek', age: 18 }
]
tea55> db.students.find({age:{$gt:10, $lt:13}})

```



```

[
  { _id: ObjectId('672a30420b146f0f4c0d8190'), name: 'Ram', age: 12 },
  { _id: ObjectId('672a349d0b146f0f4c0d8194'), name: 'Tom', age: 11 },
  { _id: ObjectId('672a349d0b146f0f4c0d8195'), name: 'Tunnu', age: 11 }
]

```

```

tea55> db.students.insertMany([{name:"Piyush", age:"10"},{name:"ola",
age:"100"},{name:"Vivek", age:"18"}])

```

```

{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('672a3ab70b146f0f4c0d8196'),
    '1': ObjectId('672a3ab70b146f0f4c0d8197'),
    '2': ObjectId('672a3ab70b146f0f4c0d8198')
  }
}

```

```

tea55> db.students.find().pretty()

```

```

[
  { _id: ObjectId('672a30420b146f0f4c0d8190'), name: 'Ram', age: 12 },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8191'),
    name: 'Piyush',
    age: 21
  },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8192'),
    name: 'Kushal',
    age: 21
  },
  { _id: ObjectId('672a30ea0b146f0f4c0d8193'), name: 'Vivek', age: 18 },
  { _id: ObjectId('672a349d0b146f0f4c0d8194'), name: 'Tom', age: 11 },
  { _id: ObjectId('672a349d0b146f0f4c0d8195'), name: 'Tunnu', age: 11 },
  {
    _id: ObjectId('672a3ab70b146f0f4c0d8196'),
    name: 'Piyush',
    age: '10'
  },
  {
    _id: ObjectId('672a3ab70b146f0f4c0d8197'),
    name: 'ola',
    age: '100'
  }
]

```

```
},
{
  _id: ObjectId('672a3ab70b146f0f4c0d8198'),
  name: 'Vivek',
  age: '18'
}
]
```

```
tea55> db.students.find()
```

```
[
  { _id: ObjectId('672a30420b146f0f4c0d8190'), name: 'Ram', age: 12 },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8191'),
    name: 'Piyush',
    age: 21
  },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8192'),
    name: 'Kushal',
    age: 21
  },
  { _id: ObjectId('672a30ea0b146f0f4c0d8193'), name: 'Vivek', age: 18 },
  { _id: ObjectId('672a349d0b146f0f4c0d8194'), name: 'Tom', age: 11 },
  { _id: ObjectId('672a349d0b146f0f4c0d8195'), name: 'Tunnu', age: 11 },
  {
    _id: ObjectId('672a3ab70b146f0f4c0d8196'),
    name: 'Piyush',
    age: '10'
  },
  {
    _id: ObjectId('672a3ab70b146f0f4c0d8197'),
    name: 'ola',
    age: '100'
  },
  {
    _id: ObjectId('672a3ab70b146f0f4c0d8198'),
    name: 'Vivek',
    age: '18'
  }
]
```

```
tea55> db.students.updateOne({name: "Piyush", age:"10"},{$set:{age:10}})
```

```
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

```
tea55> db.students.find()
```

```
[
  { _id: ObjectId('672a30420b146f0f4c0d8190'), name: 'Ram', age: 12 },
```

```

{
  _id: ObjectId('672a30ea0b146f0f4c0d8191'),
  name: 'Piyush',
  age: 21
},
{
  _id: ObjectId('672a30ea0b146f0f4c0d8192'),
  name: 'Kushal',
  age: 21
},
{ _id: ObjectId('672a30ea0b146f0f4c0d8193'), name: 'Vivek', age: 18 },
{ _id: ObjectId('672a349d0b146f0f4c0d8194'), name: 'Tom', age: 11 },
{ _id: ObjectId('672a349d0b146f0f4c0d8195'), name: 'Tunnu', age: 11 },
{
  _id: ObjectId('672a3ab70b146f0f4c0d8196'),
  name: 'Piyush',
  age: 10
},
{
  _id: ObjectId('672a3ab70b146f0f4c0d8197'),
  name: 'ola',
  age: '100'
},
{
  _id: ObjectId('672a3ab70b146f0f4c0d8198'),
  name: 'Vivek',
  age: '18'
}
]

```

```

tea55> db.students.updateMany([{{name: "ola",
age:"100"}},{ $set:{age:100}}],{{name:"Vivek", age:"18"}},{ $set:{age:18}}])
Uncaught:
SyntaxError: Unexpected token (1:25)

```

```

> 1 | db.students.updateMany([{{name: "ola",
age:"100"}},{ $set:{age:100}}],{{name:"Vivek", age:"18"}},{ $set:{age:18}}])
    |                                     ^
    2 |

```

```

tea55> db.students.updateMany([{{name: "ola",
age:"100"}},{ $set:{age:100}}],{{name:"Vivek", age:"18"}},{ $set:{age:18}}])
Uncaught:
SyntaxError: Unexpected token (1:25)

```

```

> 1 | db.students.updateMany([{{name: "ola",
age:"100"}},{ $set:{age:100}}],{{name:"Vivek", age:"18"}},{ $set:{age:18}}])
    |                                     ^
    2 |

```

```

tea55> db.students.updateMany([{{name: "ola",

```

```
age:"100"},{$set:{age:100}}},{name:"Vivek", age:"18"},{$set:{age:18}}}]])
Uncaught:
SyntaxError: Unexpected token (1:25)
```

```
> 1 | db.students.updateMany([{{name: "ola",
age:"100"},{$set:{age:100}}},{name:"Vivek", age:"18"},{$set:{age:18}}]})
    |                               ^
    2 |
```

```
tea55> db.students.updateMany([{{name: "ola", age:"100"}}])
Uncaught:
SyntaxError: Unexpected token (1:25)
```

```
> 1 | db.students.updateMany([{{name: "ola", age:"100"}}])
    |                               ^
    2 |
```

```
tea55> db.students.updateMany([{{name:"ola", age:"100"}}])
Uncaught:
SyntaxError: Unexpected token (1:25)
```

```
> 1 | db.students.updateMany([{{name:"ola", age:"100"}}])
    |                               ^
    2 |
```

```
tea55> db.students.updateMany({{name:"ola", age:"100"}})
Uncaught:
SyntaxError: Unexpected token (1:24)
```

```
> 1 | db.students.updateMany({{name:"ola", age:"100"}})
    |                               ^
    2 |
```

```
tea55> db.students.updateMany({name:"ola", age:"100"}, {$set:{age:100}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

```
tea55> db.students.updateMany({name:"Vivek", age:"18"}, {$set:{age:18}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

```
tea55> db.students.find()
```

```
[
  { _id: ObjectId('672a30420b146f0f4c0d8190'), name: 'Ram', age: 12 },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8191'),
    name: 'Piyush',
    age: 21
  },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8192'),
    name: 'Kushal',
    age: 21
  },
  { _id: ObjectId('672a30ea0b146f0f4c0d8193'), name: 'Vivek', age: 18 },
  { _id: ObjectId('672a349d0b146f0f4c0d8194'), name: 'Tom', age: 11 },
  { _id: ObjectId('672a349d0b146f0f4c0d8195'), name: 'Tunnu', age: 11 },
  {
    _id: ObjectId('672a3ab70b146f0f4c0d8196'),
    name: 'Piyush',
    age: 10
  },
  { _id: ObjectId('672a3ab70b146f0f4c0d8197'), name: 'ola', age: 100 },
  { _id: ObjectId('672a3ab70b146f0f4c0d8198'), name: 'Vivek', age: 18 }
]
```

```
tea55> //***** Conditions and Logical operation *****
```

```
tea55> db.students.find({name:"Piyush"})
```

```
[
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8191'),
    name: 'Piyush',
    age: 21
  },
  {
    _id: ObjectId('672a3ab70b146f0f4c0d8196'),
    name: 'Piyush',
    age: 10
  }
]
```

```
tea55> db.students.find({name:"Piyush", age:{$gte:21}})
```

```
[
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8191'),
    name: 'Piyush',
    age: 21
  }
]
```

```
tea55> // And
```

```
tea55> db.students.find({$and: [{name:"Piyush"},{age:{$set:15}]}})
MongoServerError[BadValue]: unknown operator: $set
```



```
tea55> db.students.find({$and: [{name:"Piyush"},{age:{$gt:15}}]})
```

```
[
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8191'),
    name: 'Piyush',
    age: 21
  }
]
```

```
tea55> db.students.find({$or: [{name:"Piyush"},{age:{$gt:15}}]})
```

```
[
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8191'),
    name: 'Piyush',
    age: 21
  },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8192'),
    name: 'Kushal',
    age: 21
  },
  { _id: ObjectId('672a30ea0b146f0f4c0d8193'), name: 'Vivek', age: 18 },
  {
    _id: ObjectId('672a3ab70b146f0f4c0d8196'),
    name: 'Piyush',
    age: 10
  },
  { _id: ObjectId('672a3ab70b146f0f4c0d8197'), name: 'ola', age: 100 },
  { _id: ObjectId('672a3ab70b146f0f4c0d8198'), name: 'Vivek', age: 18 }
]
```

```
tea55> // $nor: Returns documents that do not satisfy any of the specified conditions.
```

```
tea55> // $not: Inverts the effect of a query condition.
```

```
tea55> // *****DELETE*****
```

```
tea55> DB.STUDENTS.FIND()
```

```
ReferenceError: DB is not defined
```

```
tea55> db.students.find()
```

```
[
  { _id: ObjectId('672a30420b146f0f4c0d8190'), name: 'Ram', age: 12 },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8191'),
    name: 'Piyush',
    age: 21
  },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8192'),
    name: 'Kushal',
    age: 21
  }
]
```

```

    },
    { _id: ObjectId('672a30ea0b146f0f4c0d8193'), name: 'Vivek', age: 18 },
    { _id: ObjectId('672a349d0b146f0f4c0d8194'), name: 'Tom', age: 11 },
    { _id: ObjectId('672a349d0b146f0f4c0d8195'), name: 'Tunnu', age: 11 },
    {
      _id: ObjectId('672a3ab70b146f0f4c0d8196'),
      name: 'Piyush',
      age: 10
    },
    { _id: ObjectId('672a3ab70b146f0f4c0d8197'), name: 'ola', age: 100 },
    { _id: ObjectId('672a3ab70b146f0f4c0d8198'), name: 'Vivek', age: 18 }
  ]

```

```
tea55> db.students.find().count()
```

```
9
```

```
tea55> db.students.deleteOne({name:"old", age:100})
```

```
{ acknowledged: true, deletedCount: 0 }
```

```
tea55> db.students.deleteMany({age:{$lt:10}})
```

```
{ acknowledged: true, deletedCount: 0 }
```

```
tea55> db.students.find()
```

```

[
  { _id: ObjectId('672a30420b146f0f4c0d8190'), name: 'Ram', age: 12 },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8191'),
    name: 'Piyush',
    age: 21
  },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8192'),
    name: 'Kushal',
    age: 21
  },
  { _id: ObjectId('672a30ea0b146f0f4c0d8193'), name: 'Vivek', age: 18 },
  { _id: ObjectId('672a349d0b146f0f4c0d8194'), name: 'Tom', age: 11 },
  { _id: ObjectId('672a349d0b146f0f4c0d8195'), name: 'Tunnu', age: 11 },
  {
    _id: ObjectId('672a3ab70b146f0f4c0d8196'),
    name: 'Piyush',
    age: 10
  },
  { _id: ObjectId('672a3ab70b146f0f4c0d8197'), name: 'ola', age: 100 },
  { _id: ObjectId('672a3ab70b146f0f4c0d8198'), name: 'Vivek', age: 18 }
]

```

```
tea55> db.students.deleteOne({name:"ola", age:100})
```

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

```
tea55> db.students.find()
```

```

[
  { _id: ObjectId('672a30420b146f0f4c0d8190'), name: 'Ram', age: 12 },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8191'),
    name: 'Piyush',

```

```
    age: 21
  },
  {
    _id: ObjectId('672a30ea0b146f0f4c0d8192'),
    name: 'Kushal',
    age: 21
  },
  { _id: ObjectId('672a30ea0b146f0f4c0d8193'), name: 'Vivek', age: 18 },
  { _id: ObjectId('672a349d0b146f0f4c0d8194'), name: 'Tom', age: 11 },
  { _id: ObjectId('672a349d0b146f0f4c0d8195'), name: 'Tunnu', age: 11 },
  {
    _id: ObjectId('672a3ab70b146f0f4c0d8196'),
    name: 'Piyush',
    age: 10
  },
  { _id: ObjectId('672a3ab70b146f0f4c0d8198'), name: 'Vivek', age: 18 }
]
tea55>
```