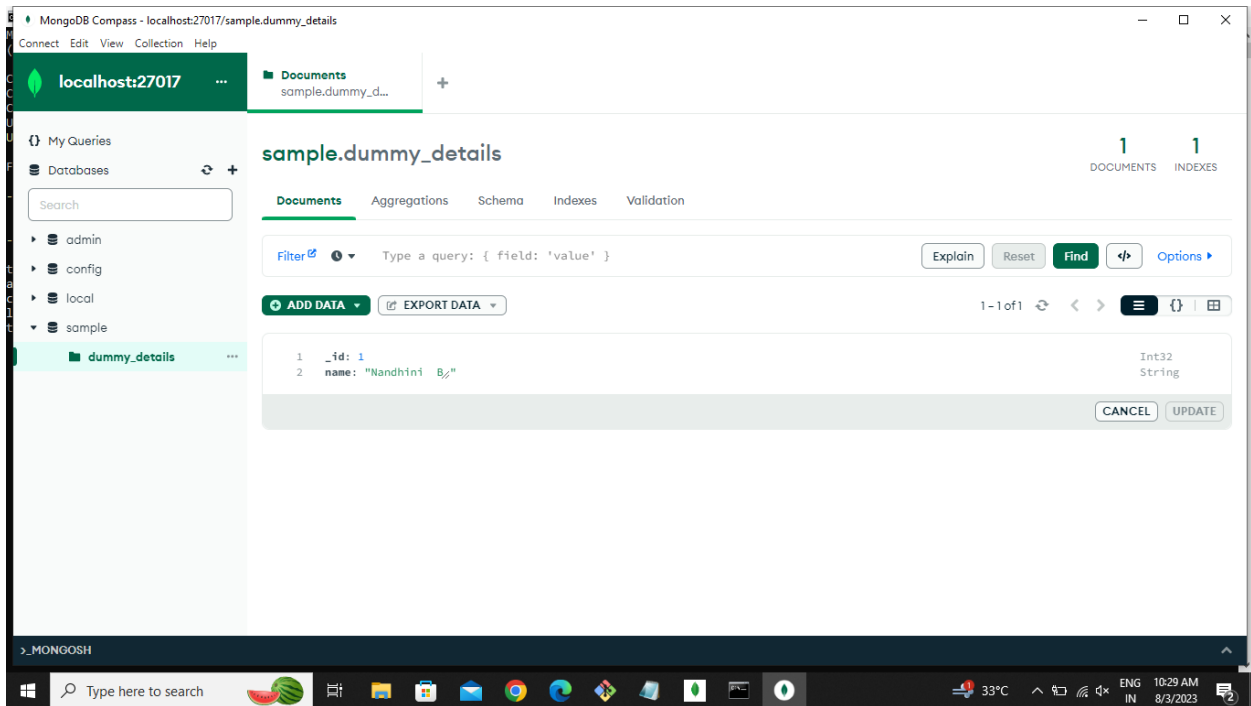**Name:Nandhini B**
Emp Id:TR10436
Date:03-08-2023

MONGODB

1)Creating a DB in Mongo Shell/Mongo GUI

2)Practicing commands in the terminal like insert,update,delete.

```
payoda> db.employees.insertOne({ name:"Nandhini B"}) ;
{
  acknowledged: true,
  insertedId: ObjectId("64cb3d1eeb98dc112180ec2b")
}
payoda> db.employees.insertmany({ name:"Nandhini B"},{}) ;
Uncaught:
SyntaxError: Unexpected token (1:46)

> 1 | db.employees.insertmany({ name:"Nandhini B"},{}) ;
    |                                               ^
  2 |

payoda> db.employees.insertmany({ name:"Nandhini B"},
... {name:"vibu"});
TypeError: db.employees.insertmany is not a function
payoda> db.employees.insertMany({ name: "Nandhini B" }, { name: "vibu" });
MongoInvalidArgumentError: Argument "docs" must be an array of documents
payoda> db.employees.insertMany({ name: "Nandhini B" }, { name: "vibu" });
MongoInvalidArgumentError: Argument "docs" must be an array of documents
payoda> db.employees.insertMany([{ name: "choco" }, { name: "ce cream"}]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64cb3e00eb98dc112180ec2c"),
    '1': ObjectId("64cb3e00eb98dc112180ec2d")
  }
}
payoda>
```

```
Uncaught:
SyntaxError: Unexpected token, expected "," (5:0)

  3 |
  4 |
> 5 | ;
    | ^
  6 |

payoda> db.employees.insertOne({ name:"Nandhini B"}) ;
{
  acknowledged: true,
  insertedId: ObjectId("64cb3d1eeb98dc112180ec2b")
}
payoda> db.employees.insertmany({ name:"Nandhini B"},{}) ;
Uncaught:
SyntaxError: Unexpected token (1:46)

> 1 | db.employees.insertmany({ name:"Nandhini B"},{}) ;
    |                                               ^
  2 |

payoda> db.employees.insertmany({ name:"Nandhini B"},
... {name:"vibu"});
TypeError: db.employees.insertmany is not a function
payoda> db.employees.insertMany({ name: "Nandhini B" }, { name: "vibu" });
MongoInvalidArgumentError: Argument "docs" must be an array of documents
payoda> db.employees.insertMany({ name: "Nandhini B" }, { name: "vibu" });
MongoInvalidArgumentError: Argument "docs" must be an array of documents
payoda> db.employees.insertMany([{ name: "choco" }, { name: "ce cream"}]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64cb3e00eb98dc112180ec2c"),
    '1': ObjectId("64cb3e00eb98dc112180ec2d")
  }
}
payoda> db.employees.find();
[
  { _id: ObjectId("64cb3d1eeb98dc112180ec2b"), name: 'Nandhini B' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2c"), name: 'choco' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2d"), name: 'ce cream' }
]
payoda>
```

```
  insertedId: ObjectId("64cb49c2f7bdbca8de707516"),
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 1
}
payoda> db.employees.find()
[
  { _id: ObjectId("64cb3d1eeb98dc112180ec2b"), name: 'Nandhini B' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2c"), name: 'choco' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2d"), name: 'ce cream' },
  { _id: ObjectId("64cb3f1beb98dc112180ec2e"), name: 'Nandhini B' },
  { _id: ObjectId("64cb3f1beb98dc112180ec2f"), name: ' ' },
  { _id: ObjectId("64cb49c2f7bdbca8de707516"), name: 'Banu ' }
]
payoda> db.employees.deleteOne({name:" "});
{ acknowledged: true, deletedCount: 1 }
payoda> db.employees.find()
[
  { _id: ObjectId("64cb3d1eeb98dc112180ec2b"), name: 'Nandhini B' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2c"), name: 'choco' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2d"), name: 'ce cream' },
  { _id: ObjectId("64cb3f1beb98dc112180ec2e"), name: 'Nandhini B' },
  { _id: ObjectId("64cb49c2f7bdbca8de707516"), name: 'Banu ' }
]
payoda> db.employees.deleteOne({name:" Nandhini B"});
{ acknowledged: true, deletedCount: 0 }
payoda> db.employees.find()
[
  { _id: ObjectId("64cb3d1eeb98dc112180ec2b"), name: 'Nandhini B' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2c"), name: 'choco' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2d"), name: 'ce cream' },
  { _id: ObjectId("64cb3f1beb98dc112180ec2e"), name: 'Nandhini B' },
  { _id: ObjectId("64cb49c2f7bdbca8de707516"), name: 'Banu ' }
]
payoda> db.employees.deleteOne({name:"Nandhini B"});
{ acknowledged: true, deletedCount: 1 }
payoda> db.employees.find()
[
  { _id: ObjectId("64cb3e00eb98dc112180ec2c"), name: 'choco' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2d"), name: 'ce cream' },
  { _id: ObjectId("64cb3f1beb98dc112180ec2e"), name: 'Nandhini B' },
  { _id: ObjectId("64cb49c2f7bdbca8de707516"), name: 'Banu ' }
]
payoda>
```

```
  |  ^
3 |
payoda> db.users.insertMany( {rollno:1, name:"aaa", email:"aaa@gmail.com"}, {rollno:2,name:"bbb",email:"bbb@gmail.com"});
MongoInvalidArgumentError: Argument "docs" must be an array of documents
payoda> db.users.insertMany([ {rollno:1, name:"aaa", email:"aaa@gmail.com"}, {rollno:2,name:"bbb",email:"bbb@gmail.com"}]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64cb4dd2eb98dc112180ec34"),
    '1': ObjectId("64cb4dd2eb98dc112180ec35")
  }
}
payoda> db.users.find();
[
  {
    _id: ObjectId("64cb4dd2eb98dc112180ec34"),
    rollno: 1,
    name: 'aaa',
    email: 'aaa@gmail.com'
  },
  {
    _id: ObjectId("64cb4dd2eb98dc112180ec35"),
    rollno: 2,
    name: 'bbb',
    email: 'bbb@gmail.com'
  }
]
payoda> db.users.insertOne( {rollno:1, name:"aaa", email:"aaa@gmail.com",age:3}) ;
{
  acknowledged: true,
  insertedId: ObjectId("64cb4e13eb98dc112180ec36")
}
payoda> db.users.find();
[
  {
    _id: ObjectId("64cb4dd2eb98dc112180ec34"),
    rollno: 1,
    name: 'aaa',
    email: 'aaa@gmail.com'
  },
  {
    _id: ObjectId("64cb4dd2eb98dc112180ec35"),
    rollno: 2,
```

```
payoda> db.users.deleteOne( {rollno:2, name:"bbb", email:"bbb@gmail.com"}) ;
{ acknowledged: true, deletedCount: 1 }
payoda> db.users.find();
[
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    rollno: 1,
    name: 'aaa',
    email: 'aaa@gmail.com',
    age: 3
  }
]
payoda> db.users.insertOne( {rollno:2, name:"bbb", email:"aba@gmail.com",age:4}) ;
{
  acknowledged: true,
  insertedId: ObjectId("64cb4f84eb98dc112180ec38")
}
payoda> db.users.find();
[
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    rollno: 1,
    name: 'aaa',
    email: 'aaa@gmail.com',
    age: 3
  },
  {
    _id: ObjectId("64cb4f84eb98dc112180ec38"),
    rollno: 2,
    name: 'bbb',
    email: 'aba@gmail.com',
    age: 4
  }
]
payoda> db.users.find({name:"aaa",age:{$gt:4}});

payoda> db.users.find({name:"aaa",age:{$gt:2}});
[
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    rollno: 1,
    name: 'aaa',
    email: 'aaa@gmail.com',
```

```
> 1 | db.users.find({$or : [{name:"aaa"},{age:{$gt:2,$lt:23}]},{email:1});
    |                                           ^
  2 |

payoda> db.users.find({$or : [{name:"aaa"},{age:{$gt:2,$lt:23}}]},{email:1});
[
  { _id: ObjectId("64cb4e13eb98dc112180ec36"), email: 'aaa@gmail.com' },
  { _id: ObjectId("64cb4f84eb98dc112180ec38"), email: 'aba@gmail.com' }
]
payoda> db.users.find({$or : [{name:"aaa"},{age:{$gt:2,$lt:23}}]},{name:1,email:1});
[
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    name: 'aaa',
    email: 'aaa@gmail.com'
  },
  {
    _id: ObjectId("64cb4f84eb98dc112180ec38"),
    name: 'bbb',
    email: 'aba@gmail.com'
  }
]
payoda> db.users.find({$or : [{name:"aaa"},{age:{$gt:2,$lt:23}}]},{name:1,email:1});
[
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    name: 'aaa',
    email: 'aaa@gmail.com'
  },
  {
    _id: ObjectId("64cb4f84eb98dc112180ec38"),
    name: 'bbb',
    email: 'aba@gmail.com'
  }
]
payoda>
```

CODE:

```
C:\Users\nandhinib>mongosh
Current Mongosh Log ID: 64cb309672ccaab68979ef09
Connecting to:
mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&app
Name=mongosh+1.10.3
Using MongoDB: 6.0.8
Using Mongosh: 1.10.3
For mongosh info see: https://docs.mongodb.com/mongodb-shell/

------
The server generated these startup warnings when booting
2023-08-02T13:41:59.024+05:30: Access control is not enabled for the database. Read
and write access to data and configuration is unrestricted
------

test> show dbs
admin   48.00 KiB
config  72.00 KiB
local   72.00 KiB
test> show dbs
admin    48.00 KiB
config   108.00 KiB
local    72.00 KiB
sample   40.00 KiB
test> db
test
test> use payoda ;
switched to db payoda
payoda> show dbs
admin   48.00 KiB
config  72.00 KiB
local   72.00 KiB
sample  40.00 KiB
payoda> db.createCollection("employees");
{ ok: 1 }
payoda> db.collectionname.insertOne({
... name:"Nandhini B"
payoda> db.employees.insertOne({ name:"Nandhini B"}) ;
{
  acknowledged: true,
  insertedId: ObjectId("64cb3d1eeb98dc112180ec2b")
}
```

```
payoda> db.employees.insertmany({ name:"Nandhini B"},
... {name:"vibu"});
TypeError: db.employees.insertmany is not a function
payoda> db.employees.insertMany({ name: "Nandhini B" }, { name: "vibu" });
MongoInvalidArgumentError: Argument "docs" must be an array of documents
payoda> db.employees.insertMany({ name: "Nandhini B" }, { name: "vibu" });
MongoInvalidArgumentError: Argument "docs" must be an array of documents
payoda> db.employees.insertMany([{ name: "choco" }, { name: "ce cream"}]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64cb3e00eb98dc112180ec2c"),
    '1': ObjectId("64cb3e00eb98dc112180ec2d")
  }
}
payoda> db.employees.find();
[
  { _id: ObjectId("64cb3d1eeb98dc112180ec2b"), name: 'Nandhini B' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2c"), name: 'choco' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2d"), name: 'ce cream' }
]
payoda> db.employees.insertMany([{ name: "Nandhini B" }, { name: "vibu" }]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64cb3f1beb98dc112180ec2e"),
    '1': ObjectId("64cb3f1beb98dc112180ec2f")
  }
}
payoda> db.employees.find();
[
  { _id: ObjectId("64cb3d1eeb98dc112180ec2b"), name: 'Nandhini B' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2c"), name: 'choco' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2d"), name: 'ce cream' },
  { _id: ObjectId("64cb3f1beb98dc112180ec2e"), name: 'Nandhini B' },
  { _id: ObjectId("64cb3f1beb98dc112180ec2f"), name: 'vibu' }
]
payoda> db.employees.find({name:"nandhini B"});

payoda> db.employees.find({name:"Nandhini B"});
[
  { _id: ObjectId("64cb3d1eeb98dc112180ec2b"), name: 'Nandhini B' },
  { _id: ObjectId("64cb3f1beb98dc112180ec2e"), name: 'Nandhini B' }
]
```

```
payoda> db.employees.find({},{name:1});
[
  { _id: ObjectId("64cb3d1eeb98dc112180ec2b"), name: 'Nandhini B' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2c"), name: 'choco' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2d"), name: 'ce cream' },
  { _id: ObjectId("64cb3f1beb98dc112180ec2e"), name: 'Nandhini B' },
  { _id: ObjectId("64cb3f1beb98dc112180ec2f"), name: 'vibu' }
]
payoda> db.employees.find({},{name:0});
[
  { _id: ObjectId("64cb3d1eeb98dc112180ec2b") },
  { _id: ObjectId("64cb3e00eb98dc112180ec2c") },
  { _id: ObjectId("64cb3e00eb98dc112180ec2d") },
  { _id: ObjectId("64cb3f1beb98dc112180ec2e") },
  { _id: ObjectId("64cb3f1beb98dc112180ec2f") }
]
payoda> db.collectionname.insertOne({ age:2}) ;
{
  acknowledged: true,
  insertedId: ObjectId("64cb4049eb98dc112180ec30")
}
payoda> db.employees.find({},{name:0});
[
  { _id: ObjectId("64cb3d1eeb98dc112180ec2b") },
  { _id: ObjectId("64cb3e00eb98dc112180ec2c") },
  { _id: ObjectId("64cb3e00eb98dc112180ec2d") },
  { _id: ObjectId("64cb3f1beb98dc112180ec2e") },
  { _id: ObjectId("64cb3f1beb98dc112180ec2f") }
]
payoda> db.employees.find);
Uncaught:
SyntaxError: Missing semicolon. (1:17)

> 1 | db.employees.find);
    |                  ^
  2 |

payoda> db.employees.find();
[
  { _id: ObjectId("64cb3d1eeb98dc112180ec2b"), name: 'Nandhini B' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2c"), name: 'choco' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2d"), name: 'ce cream' },
  { _id: ObjectId("64cb3f1beb98dc112180ec2e"), name: 'Nandhini B' },
  { _id: ObjectId("64cb3f1beb98dc112180ec2f"), name: 'vibu' }
```

```
]
payoda> db.details.find();

payoda> db.employees.updateOne({name:"vibu"},{name:" "  });
MongoInvalidArgumentError: Update document requires atomic operators
payoda> db.employees.updateOne({name:"vibu"},{$set: {name:" "}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
payoda> db.details.find();

payoda> db.employees.find()
[
  { _id: ObjectId("64cb3d1eeb98dc112180ec2b"), name: 'Nandhini B' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2c"), name: 'choco' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2d"), name: 'ce cream' },
  { _id: ObjectId("64cb3f1beb98dc112180ec2e"), name: 'Nandhini B' },
  { _id: ObjectId("64cb3f1beb98dc112180ec2f"), name: ' ' }
]
payoda> db.employees.updateOne({name:"vibu"},{$set: {name:"Banu "}},{upsert:true});
{
  acknowledged: true,
  insertedId: ObjectId("64cb49c2f7bdbca8de707516"),
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 1
}

payoda> db.employees.deleteOne({name:" "});
{ acknowledged: true, deletedCount: 1 }
payoda> db.employees.find()
[
  { _id: ObjectId("64cb3d1eeb98dc112180ec2b"), name: 'Nandhini B' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2c"), name: 'choco' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2d"), name: 'ce cream' },
  { _id: ObjectId("64cb3f1beb98dc112180ec2e"), name: 'Nandhini B' },
  { _id: ObjectId("64cb49c2f7bdbca8de707516"), name: 'Banu ' }
]
payoda> db.employees.deleteOne({name:" Nandhini B"});
{ acknowledged: true, deletedCount: 0 }
```

```
payoda> db.employees.deleteOne({name:"Nandhini B"});
{ acknowledged: true, deletedCount: 1 }
payoda> db.employees.find()
[
  { _id: ObjectId("64cb3e00eb98dc112180ec2c"), name: 'choco' },
  { _id: ObjectId("64cb3e00eb98dc112180ec2d"), name: 'ce cream' },
  { _id: ObjectId("64cb3f1beb98dc112180ec2e"), name: 'Nandhini B' },
  { _id: ObjectId("64cb49c2f7bdbca8de707516"), name: 'Banu ' }
]
payoda> db.employees.deleteMany({});
{ acknowledged: true, deletedCount: 4 }
payoda> db.collectionname.insertOne({name:"Nandhini", age:2}) ;
{
  acknowledged: true,
  insertedId: ObjectId("64cb4b2eeb98dc112180ec31")
}
payoda> db.collectionname.insertMany([{name:"AAA", age:2},{name:"BBB",age:3}]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64cb4b66eb98dc112180ec32"),
    '1': ObjectId("64cb4b66eb98dc112180ec33")
  }
}
payoda> db.employees.find()

payoda> db.collectionname.find()
[
  { _id: ObjectId("64cb4049eb98dc112180ec30"), age: 2 },
  {
    _id: ObjectId("64cb4b2eeb98dc112180ec31"),
    name: 'Nandhini',
    age: 2
  },
  { _id: ObjectId("64cb4b66eb98dc112180ec32"), name: 'AAA', age: 2 },
  { _id: ObjectId("64cb4b66eb98dc112180ec33"), name: 'BBB', age: 3 }
]
payoda> db.employees.deleteOne({age:2});
{ acknowledged: true, deletedCount: 0 }
payoda> db.collectionname.deleteOne({age:2});
{ acknowledged: true, deletedCount: 1 }
payoda> db.collectionname.find()
[
  {
```

```
      _id: ObjectId("64cb4b2eeb98dc112180ec31"),
      name: 'Nandhini',
      age: 2
    },
    { _id: ObjectId("64cb4b66eb98dc112180ec32"), name: 'AAA', age: 2 },
    { _id: ObjectId("64cb4b66eb98dc112180ec33"), name: 'BBB', age: 3 }
]
payoda> db.collectionname.UpdateOne({name:Nandhini},{$set:{name:nan}});
ReferenceError: Nandhini is not defined
payoda> db.collectionname.UpdateOne({name:"Nandhini"},{$set:{name:"nan"}});
TypeError: db.collectionname.UpdateOne is not a function
payoda> db.collectionname.updateOne({name:"Nandhini"},{$set:{name:"nan"}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
payoda> db.collectionname.find()
[
    { _id: ObjectId("64cb4b2eeb98dc112180ec31"), name: 'nan', age: 2 },
    { _id: ObjectId("64cb4b66eb98dc112180ec32"), name: 'AAA', age: 2 },
    { _id: ObjectId("64cb4b66eb98dc112180ec33"), name: 'BBB', age: 3 }
]

payoda> db.users.insertMany( {rollno:1, name:"aaa", email:"aaa@gmail.com"} ;
Uncaught:
SyntaxError: Unexpected token, expected "," (1:67)

> 1 | db.users.insertMany( {rollno:1, name:"aaa", email:"aaa@gmail.com"} ;
    |                                                                   ^
  2 |

payoda> db.users.insertMany( {rollno:1, name:"aaa", email:"aaa@gmail.com"}) ;
MongoInvalidArgumentError: Argument "docs" must be an array of documents
payoda> db.users.insertMany( {rollno:1, name:"aaa", email:"aaa@gmail.com"}
... {rollno:2,name:"bbb",email:"bbb@gmail.com"});
Uncaught:
SyntaxError: Unexpected token, expected "," (2:0)

  1 | db.users.insertMany( {rollno:1, name:"aaa", email:"aaa@gmail.com"}
> 2 | {rollno:2,name:"bbb",email:"bbb@gmail.com"});
    | ^
```

```
payoda> db.users.insertMany( {rollno:1, name:"aaa", email:"aaa@gmail.com"},
{rollno:2,name:"bbb",email:"bbb@gmail.com"});
MongoInvalidArgumentError: Argument "docs" must be an array of documents
payoda> db.users.insertMany([ {rollno:1, name:"aaa", email:"aaa@gmail.com"},
{rollno:2,name:"bbb",email:"bbb@gmail.com"}]);
{
  acknowledged: true,
  insertedIds: {
   '0': ObjectId("64cb4dd2eb98dc112180ec34"),
   '1': ObjectId("64cb4dd2eb98dc112180ec35")
  }
}
payoda> db.users.find();
[
 {
   _id: ObjectId("64cb4dd2eb98dc112180ec34"),
   rollno: 1,
   name: 'aaa',
   email: 'aaa@gmail.com'
 },
 {
   _id: ObjectId("64cb4dd2eb98dc112180ec35"),
   rollno: 2,
   name: 'bbb',
   email: 'bbb@gmail.com'
 }
]
payoda> db.users.insertOne( {rollno:1, name:"aaa", email:"aaa@gmail.com",age:3}) ;
{
  acknowledged: true,
  insertedId: ObjectId("64cb4e13eb98dc112180ec36")
}
payoda> db.users.find();
[
 {
   _id: ObjectId("64cb4dd2eb98dc112180ec34"),
   rollno: 1,
   name: 'aaa',
   email: 'aaa@gmail.com'
 },
 {
   _id: ObjectId("64cb4dd2eb98dc112180ec35"),
```

```
    rollno: 2,
    name: 'bbb',
    email: 'bbb@gmail.com'
  },
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    rollno: 1,
    name: 'aaa',
    email: 'aaa@gmail.com',
    age: 3
  }
]
payoda> db.users.insertOne( {rollno:2, name:"bbb", email:"aba@gmail.com",age:4}) ;
{
  acknowledged: true,
  insertedId: ObjectId("64cb4e45eb98dc112180ec37")
}
payoda> db.users.find();
[
  {
    _id: ObjectId("64cb4dd2eb98dc112180ec34"),
    rollno: 1,
    name: 'aaa',
    email: 'aaa@gmail.com'
  },
  {
    _id: ObjectId("64cb4dd2eb98dc112180ec35"),
    rollno: 2,
    name: 'bbb',
    email: 'bbb@gmail.com'
  },
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    rollno: 1,
    name: 'aaa',
    email: 'aaa@gmail.com',
    age: 3
  },
  {
    _id: ObjectId("64cb4e45eb98dc112180ec37"),
    rollno: 2,
    name: 'bbb',
    email: 'aba@gmail.com',
    age: 4
```

```
  }
]
payoda> db.users.find({age:{$gt:2}},{_id:0,name:1});
[ { name: 'aaa' }, { name: 'bbb' } ]
payoda> db.users.find({age:{$gt:3}},{_id:0,name:1});
[ { name: 'bbb' } ]
payoda> db.users.find({age:{$gt:4}},{_id:0,name:1});

payoda> db.users.deleteOne( {rollno:1, name:"aaa", email:"aaa@gmail.com"}) ;
{ acknowledged: true, deletedCount: 1 }
payoda> db.users.deleteOne( {rollno:2, name:"bbb", email:"aba@gmail.com"}) ;
{ acknowledged: true, deletedCount: 1 }
payoda> db.users.find();
[
  {
    _id: ObjectId("64cb4dd2eb98dc112180ec35"),
    rollno: 2,
    name: 'bbb',
    email: 'bbb@gmail.com'
  },
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    rollno: 1,
    name: 'aaa',
    email: 'aaa@gmail.com',
    age: 3
  }
]
payoda> db.users.deleteOne( {rollno:2, name:"bbb", email:"bbb@gmail.com"}) ;
{ acknowledged: true, deletedCount: 1 }
payoda> db.users.find();
[
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    rollno: 1,
    name: 'aaa',
    email: 'aaa@gmail.com',
    age: 3
  }
]
payoda> db.users.insertOne( {rollno:2, name:"bbb", email:"aba@gmail.com",age:4}) ;
{
  acknowledged: true,
  insertedId: ObjectId("64cb4f84eb98dc112180ec38")
```

```
}
payoda> db.users.find();
[
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    rollno: 1,
    name: 'aaa',
    email: 'aaa@gmail.com',
    age: 3
  },
  {
    _id: ObjectId("64cb4f84eb98dc112180ec38"),
    rollno: 2,
    name: 'bbb',
    email: 'aba@gmail.com',
    age: 4
  }
]
payoda> db.users.find({name:"aaa",age:{$gt:4}});

payoda> db.users.find({name:"aaa",age:{$gt:2}});
[
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    rollno: 1,
    name: 'aaa',
    email: 'aaa@gmail.com',
    age: 3
  }
]
payoda> db.users.find({name:"aaa",age:{$gt:2}},{email:1});
[
  { _id: ObjectId("64cb4e13eb98dc112180ec36"), email: 'aaa@gmail.com' }
]
payoda> db.users.find({name:"aaa",age:{$lt:25}},{email:1});
[
  { _id: ObjectId("64cb4e13eb98dc112180ec36"), email: 'aaa@gmail.com' }
]
payoda> db.users.insertOne( {rollno:3, name:"xxx", email:"aba@gmail.com",age:24}) ;
{
  acknowledged: true,
  insertedId: ObjectId("64cb5121eb98dc112180ec39")
}
payoda> db.users.insertOne( {rollno:5, name:"kox", email:"wewa@gmail.com",age:41}) ;
```

```
{
  acknowledged: true,
  insertedId: ObjectId("64cb5136eb98dc112180ec3a")
}
payoda> db.users.insertOne( {rollno:6, name:"dko22x", email:"wewa@gmail.com",age:32}) ;
{
  acknowledged: true,
  insertedId: ObjectId("64cb5146eb98dc112180ec3b")
}
payoda> db.users.find({name:"aaa",age:{$gt:2,$lt:32}},{email:1});
[
  { _id: ObjectId("64cb4e13eb98dc112180ec36"), email: 'aaa@gmail.com' }
]
payoda> db.users.find({name:"aaa",age:{$gt:2,$lt:23}},{email:1});
[
  { _id: ObjectId("64cb4e13eb98dc112180ec36"), email: 'aaa@gmail.com' }
]
payoda> db.users.find();
[
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    rollno: 1,
    name: 'aaa',
    email: 'aaa@gmail.com',
    age: 3
  },
  {
    _id: ObjectId("64cb4f84eb98dc112180ec38"),
    rollno: 2,
    name: 'bbb',
    email: 'aba@gmail.com',
    age: 4
  },
  {
    _id: ObjectId("64cb5121eb98dc112180ec39"),
    rollno: 3,
    name: 'xxx',
    email: 'aba@gmail.com',
    age: 24
  },
  {
    _id: ObjectId("64cb5136eb98dc112180ec3a"),
    rollno: 5,
    name: 'kox',
```

```
    email: 'wewa@gmail.com',
    age: 41
  },
  {
    _id: ObjectId("64cb5146eb98dc112180ec3b"),
    rollno: 6,
    name: 'dko22x',
    email: 'wewa@gmail.com',
    age: 32
  }
]
payoda> db.users.find({age:{$gt:2,$lt:23}},{email:1});
[
  { _id: ObjectId("64cb4e13eb98dc112180ec36"), email: 'aaa@gmail.com' },
  { _id: ObjectId("64cb4f84eb98dc112180ec38"), email: 'aba@gmail.com' }
]
payoda> db.users.find({$or : [{name:"aaa"},{age:{$gt:2,$lt:23}]},{email:1});
Uncaught:
SyntaxError: Unexpected token, expected "," (1:54)

> 1 | db.users.find({$or : [{name:"aaa"},{age:{$gt:2,$lt:23}]},{email:1});
    |                                                      ^
  2 |

payoda> db.users.find({$or : [{name:"aaa"},{age:{$gt:2,$lt:23}}]},{email:1});
[
  { _id: ObjectId("64cb4e13eb98dc112180ec36"), email: 'aaa@gmail.com' },
  { _id: ObjectId("64cb4f84eb98dc112180ec38"), email: 'aba@gmail.com' }
]
payoda> db.users.find({$or : [{name:"aaa"},{age:{$gt:2,$lt:23}}]},{name:1,email:1});
[
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    name: 'aaa',
    email: 'aaa@gmail.com'
  },
  {
    _id: ObjectId("64cb4f84eb98dc112180ec38"),
    name: 'bbb',
    email: 'aba@gmail.com'
  }
payoda> db.users.insertMany([ {rollno:1, name:"aaa", email:"aaa@gmail.com"},
{rollno:2,name:"bbb",email:"bbb@gmail.com"}]);
{
```

```
  acknowledged: true,
  insertedIds: {
   '0': ObjectId("64cb4dd2eb98dc112180ec34"),
   '1': ObjectId("64cb4dd2eb98dc112180ec35")
  }
}
payoda> db.users.find();
[
  {
   _id: ObjectId("64cb4dd2eb98dc112180ec34"),
   rollno: 1,
   name: 'aaa',
   email: 'aaa@gmail.com'
  },
  {
   _id: ObjectId("64cb4dd2eb98dc112180ec35"),
   rollno: 2,
   name: 'bbb',
   email: 'bbb@gmail.com'
  }
]
payoda> db.users.insertOne( {rollno:1, name:"aaa", email:"aaa@gmail.com",age:3}) ;
{
  acknowledged: true,
  insertedId: ObjectId("64cb4e13eb98dc112180ec36")
}
payoda> db.users.find();
[
  {
   _id: ObjectId("64cb4dd2eb98dc112180ec34"),
   rollno: 1,
   name: 'aaa',
   email: 'aaa@gmail.com'
  },
  {
   _id: ObjectId("64cb4dd2eb98dc112180ec35"),
   rollno: 2,
   name: 'bbb',
   email: 'bbb@gmail.com'
  },
  {
   _id: ObjectId("64cb4e13eb98dc112180ec36"),
   rollno: 1,
   name: 'aaa',
```

```
    email: 'aaa@gmail.com',
    age: 3
  }
]
payoda> db.users.deleteOne( {rollno:2, name:"bbb", email:"bbb@gmail.com"}) ;
{ acknowledged: true, deletedCount: 1 }
payoda> db.users.find();
[
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    rollno: 1,
    name: 'aaa',
    email: 'aaa@gmail.com',
    age: 3
  }
]
payoda> db.users.insertOne( {rollno:2, name:"bbb", email:"aba@gmail.com",age:4}) ;
{
  acknowledged: true,
  insertedId: ObjectId("64cb4f84eb98dc112180ec38")
}
payoda> db.users.find();
[
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    rollno: 1,
    name: 'aaa',
    email: 'aaa@gmail.com',
    age: 3
  },
  {
    _id: ObjectId("64cb4f84eb98dc112180ec38"),
    rollno: 2,
    name: 'bbb',
    email: 'aba@gmail.com',
    age: 4
  }
]
payoda> db.users.find({name:"aaa",age:{$gt:4}});

payoda> db.users.find({name:"aaa",age:{$gt:2}});
[
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
```

```
    rollno: 1,
    name: 'aaa',
    email: 'aaa@gmail.com',
    age: 3
  }
]
payoda> db.users.find({name:"aaa",age:{$gt:2}},{email:1});
[
  { _id: ObjectId("64cb4e13eb98dc112180ec36"), email: 'aaa@gmail.com' }
]
payoda> db.users.find({name:"aaa",age:{$lt:25}},{email:1});
[
  { _id: ObjectId("64cb4e13eb98dc112180ec36"), email: 'aaa@gmail.com' }
]
payoda> db.users.insertOne( {rollno:3, name:"xxx", email:"aba@gmail.com",age:24}) ;
{
  acknowledged: true,
  insertedId: ObjectId("64cb5121eb98dc112180ec39")
}
payoda> db.users.insertOne( {rollno:5, name:"kox", email:"wewa@gmail.com",age:41}) ;
{
  acknowledged: true,
  insertedId: ObjectId("64cb5136eb98dc112180ec3a")
}
payoda> db.users.insertOne( {rollno:6, name:"dko22x", email:"wewa@gmail.com",age:32}) ;
{
  acknowledged: true,
  insertedId: ObjectId("64cb5146eb98dc112180ec3b")
}
payoda> db.users.find({name:"aaa",age:{$gt:2,$lt:32}},{email:1});
[
  { _id: ObjectId("64cb4e13eb98dc112180ec36"), email: 'aaa@gmail.com' }
]
payoda> db.users.find({name:"aaa",age:{$gt:2,$lt:23}},{email:1});
[
  { _id: ObjectId("64cb4e13eb98dc112180ec36"), email: 'aaa@gmail.com' }
]
payoda> db.users.find();
[
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    rollno: 1,
    name: 'aaa',
    email: 'aaa@gmail.com',
```

```
      age: 3
  },
  {
    _id: ObjectId("64cb4f84eb98dc112180ec38"),
    rollno: 2,
    name: 'bbb',
    email: 'aba@gmail.com',
    age: 4
  },
  {
    _id: ObjectId("64cb5121eb98dc112180ec39"),
    rollno: 3,
    name: 'xxx',
    email: 'aba@gmail.com',
    age: 24
  },
  {
    _id: ObjectId("64cb5136eb98dc112180ec3a"),
    rollno: 5,
    name: 'kox',
    email: 'wewa@gmail.com',
    age: 41
  },
  {
    _id: ObjectId("64cb5146eb98dc112180ec3b"),
    rollno: 6,
    name: 'dko22x',
    email: 'wewa@gmail.com',
    age: 32
  }
]
payoda> db.users.find({age:{$gt:2,$lt:23}},{email:1});
[
  { _id: ObjectId("64cb4e13eb98dc112180ec36"), email: 'aaa@gmail.com' },
  { _id: ObjectId("64cb4f84eb98dc112180ec38"), email: 'aba@gmail.com' }
]
payoda> db.users.find({$or : [{name:"aaa"},{age:{$gt:2,$lt:23}]},{email:1});
Uncaught:
SyntaxError: Unexpected token, expected "," (1:54)

> 1 | db.users.find({$or : [{name:"aaa"},{age:{$gt:2,$lt:23}]},{email:1});
    |                                                      ^
  2 |
```

```
payoda> db.users.find({$or : [{name:"aaa"},{age:{$gt:2,$lt:23}}]},{email:1});
[
  { _id: ObjectId("64cb4e13eb98dc112180ec36"), email: 'aaa@gmail.com' },
  { _id: ObjectId("64cb4f84eb98dc112180ec38"), email: 'aba@gmail.com' }
]
payoda> db.users.find({$or : [{name:"aaa"},{age:{$gt:2,$lt:23}}]},{name:1,email:1});
[
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    name: 'aaa',
    email: 'aaa@gmail.com'
  },
  {
    _id: ObjectId("64cb4f84eb98dc112180ec38"),
    name: 'bbb',
    email: 'aba@gmail.com'
  }
]
payoda> db.users.find({$or : [{name:"aaa"},{age:{$gt:2,$lt:23}}]},{name:1,email:1});
[
  {
    _id: ObjectId("64cb4e13eb98dc112180ec36"),
    name: 'aaa',
    email: 'aaa@gmail.com'
  },
  {
    _id: ObjectId("64cb4f84eb98dc112180ec38"),
    name: 'bbb',
    email: 'aba@gmail.com'
  }
]
payoda>
```