```
test> use bank_db
switched to db bank_db
bank_db> show dbs
admin 40.00 KiB
config 84.00 KiB
local 72.00 KiB
school 72.00 KiB
bank_db>
bank_db> db.createCollection("employees")
{ ok: 1 }
bank_db>
bank_db> show dbs
admin 40.00 KiB
bank_db 8.00 KiB
config 84.00 KiB
local 72.00 KiB
school 72.00 KiB
bank_db>
bank_db> show collections
employees
bank_db> db.createCollection("branches")
{ ok: 1 }
bank_db> show collections
branches
employees
bank_db> db.branches.drop()
true
bank_db> show collections
```

```
employees
bank_db> db.dropDatabase()
{ ok: 1, dropped: 'bank_db' }
bank_db>
bank_db>
bank_db>
bank_db> use car_dealership
switched to db car_dealership
car_dealership>
car_dealership> db.createCollection("cars")
{ ok: 1 }
car_dealership> show collections
cars
car_dealership> db.cars.insertOne(
... {
... "maker": "Tata",
... "model": "Nexon",
... "fuel_type": "Petrol",
... "transmission": "Automatic",
... "engine": {
... "type": "Turbocharged",
... "cc": 1199,
... "torque": "170 Nm"
... "features": [
... "Touchscreen",
... "Reverse Camera",
```

```
... "Bluetooth Connectivity"
...],
... "sunroof": false,
... "airbags": 2
... }
...)
 acknowledged: true,
 insertedId: ObjectId('68330cdb55c924ce206c4bd0')
}
car_dealership> db.cars.insertMany(
....[
... {
... "maker": "Hyundai",
... "model": "Creta",
... "fuel_type": "Diesel",
... "transmission": "Manual",
... "engine": {
... "type": "Naturally Aspirated",
... "cc": 1493,
... "torque": "250 Nm"
... "features": [
... "Sunroof",
... "Leather Seats",
... "Wireless Charging",
... "Ventilated Seats",
... "Bluetooth"
...],
... "sunroof": true,
... "airbags": 6
```

```
... },
... {
... "maker": "Maruti Suzuki",
... "model": "Baleno",
... "fuel_type": "Petrol",
... "transmission": "Automatic",
... "engine": {
... "type": "Naturally Aspirated",
... "cc": 1197,
... "torque": "113 Nm"
... },
... "features": [
... "Projector Headlamps",
... "Apple CarPlay",
... "ABS"
...],
... "sunroof": false,
... "airbags": 2
... },
... {
... "maker": "Mahindra",
... "model": "XUV500",
... "fuel_type": "Diesel",
... "transmission": "Manual",
... "engine": {
... "type": "Turbocharged",
... "cc": 2179,
... "torque": "360 Nm"
... "features": [
... "All-Wheel Drive",
```

```
... "Navigation System",
... "Cruise Control"
...],
... "sunroof": true,
... "airbags": 6
... },
... {
... "maker": "Honda",
... "model": "City",
... "fuel_type": "Petrol",
... "transmission": "Automatic",
... "engine": {
... "type": "Naturally Aspirated",
... "cc": 1498,
... "torque": "145 Nm"
... },
... "features": [
... "Keyless Entry",
... "Auto AC",
... "Multi-angle Rearview Camera"
... "sunroof": false,
... "airbags": 4
...]
...)
 acknowledged: true,
 insertedIds: {
  '0': ObjectId('68330d5855c924ce206c4bd1'),
  '1': ObjectId('68330d5855c924ce206c4bd2'),
```

```
'2': ObjectId('68330d5855c924ce206c4bd3'),
  '3': ObjectId('68330d5855c924ce206c4bd4')
 }
}
car_dealership> db.cars.find()
[
 {
  _id: ObjectId('68330cdb55c924ce206c4bd0'),
  maker: 'Tata',
  model: 'Nexon',
  fuel_type: 'Petrol',
  transmission: 'Automatic',
  engine: { type: 'Turbocharged', cc: 1199, torque: '170 Nm' },
  features: [ 'Touchscreen', 'Reverse Camera', 'Bluetooth Connectivity' ],
  sunroof: false,
  airbags: 2
 },
  _id: ObjectId('68330d5855c924ce206c4bd1'),
  maker: 'Hyundai',
  model: 'Creta',
  fuel_type: 'Diesel',
  transmission: 'Manual',
  engine: { type: 'Naturally Aspirated', cc: 1493, torque: '250 Nm' },
  features: [
   'Sunroof',
   'Leather Seats',
   'Wireless Charging',
   'Ventilated Seats',
   'Bluetooth'
  ],
```

```
sunroof: true,
 airbags: 6
},
 _id: ObjectId('68330d5855c924ce206c4bd2'),
 maker: 'Maruti Suzuki',
 model: 'Baleno',
 fuel_type: 'Petrol',
 transmission: 'Automatic',
 engine: { type: 'Naturally Aspirated', cc: 1197, torque: '113 Nm' },
 features: [ 'Projector Headlamps', 'Apple CarPlay', 'ABS' ],
 sunroof: false,
 airbags: 2
},
 _id: ObjectId('68330d5855c924ce206c4bd3'),
 maker: 'Mahindra',
 model: 'XUV500',
 fuel_type: 'Diesel',
 transmission: 'Manual',
 engine: { type: 'Turbocharged', cc: 2179, torque: '360 Nm' },
 features: [ 'All-Wheel Drive', 'Navigation System', 'Cruise Control' ],
 sunroof: true,
 airbags: 6
},
 _id: ObjectId('68330d5855c924ce206c4bd4'),
 maker: 'Honda',
 model: 'City',
 fuel_type: 'Petrol',
 transmission: 'Automatic',
```

```
engine: { type: 'Naturally Aspirated', cc: 1498, torque: '145 Nm' },
  features: [ 'Keyless Entry', 'Auto AC', 'Multi-angle Rearview Camera'],
  sunroof: false,
  airbags: 4
 }
]
car_dealership> db.cars,findOne()
ReferenceError: findOne is not defined
car_dealership> db.cas.findOne()
null
car_dealership> db.cars.findOne()
 _id: ObjectId('68330cdb55c924ce206c4bd0'),
 maker: 'Tata',
 model: 'Nexon',
 fuel_type: 'Petrol',
 transmission: 'Automatic',
 engine: { type: 'Turbocharged', cc: 1199, torque: '170 Nm' },
 features: [ 'Touchscreen', 'Reverse Camera', 'Bluetooth Connectivity' ],
 sunroof: false,
 airbags: 2
car_dealership> db.cars.find({model:1})
car_dealership> db.cars.find({},{model:1})
 { _id: ObjectId('68330cdb55c924ce206c4bd0'), model: 'Nexon' },
 { _id: ObjectId('68330d5855c924ce206c4bd1'), model: 'Creta' },
 { _id: ObjectId('68330d5855c924ce206c4bd2'), model: 'Baleno' },
 { _id: ObjectId('68330d5855c924ce206c4bd3'), model: 'XUV500' },
 { _id: ObjectId('68330d5855c924ce206c4bd4'), model: 'City' }
```

```
]
car_dealership> db.cars.find({},{model:1,_id:0})
[
 { model: 'Nexon' },
 { model: 'Creta' },
 { model: 'Baleno' },
 { model: 'XUV500' },
 { model: 'City' }
]
car_dealership> db.cars.find({fuel_type:"Petrol"})
[
 {
  _id: ObjectId('68330cdb55c924ce206c4bd0'),
  maker: 'Tata',
  model: 'Nexon',
  fuel_type: 'Petrol',
  transmission: 'Automatic',
  engine: { type: 'Turbocharged', cc: 1199, torque: '170 Nm' },
  features: [ 'Touchscreen', 'Reverse Camera', 'Bluetooth Connectivity' ],
  sunroof: false,
  airbags: 2
 },
  _id: ObjectId('68330d5855c924ce206c4bd2'),
  maker: 'Maruti Suzuki',
  model: 'Baleno',
  fuel_type: 'Petrol',
  transmission: 'Automatic',
  engine: { type: 'Naturally Aspirated', cc: 1197, torque: '113 Nm' },
  features: ['Projector Headlamps', 'Apple CarPlay', 'ABS'],
  sunroof: false,
```

```
airbags: 2
 },
  _id: ObjectId('68330d5855c924ce206c4bd4'),
  maker: 'Honda',
  model: 'City',
  fuel_type: 'Petrol',
  transmission: 'Automatic',
  engine: { type: 'Naturally Aspirated', cc: 1498, torque: '145 Nm' },
  features: [ 'Keyless Entry', 'Auto AC', 'Multi-angle Rearview Camera' ],
  sunroof: false,
  airbags: 4
 }
]
car_dealership> db.cars.find({features:"Sunroof"})
[
 {
  _id: ObjectId('68330d5855c924ce206c4bd1'),
  maker: 'Hyundai',
  model: 'Creta',
  fuel_type: 'Diesel',
  transmission: 'Manual',
  engine: { type: 'Naturally Aspirated', cc: 1493, torque: '250 Nm' },
  features: [
   'Sunroof',
   'Leather Seats',
   'Wireless Charging',
   'Ventilated Seats',
   'Bluetooth'
  ],
  sunroof: true,
```

```
airbags: 6
 }
]
car_dealership> db.cars.find({engine.type:"Turbocharged"})
Uncaught:
SyntaxError: Unexpected token, expected "," (1:20)
> 1 | db.cars.find({engine.type:"Turbocharged"})
  2 |
car_dealership> db.cars.find({"engine.type":"Turbocharged"})
[
 {
  _id: ObjectId('68330cdb55c924ce206c4bd0'),
  maker: 'Tata',
  model: 'Nexon',
  fuel_type: 'Petrol',
  transmission: 'Automatic',
  engine: { type: 'Turbocharged', cc: 1199, torque: '170 Nm' },
  features: [ 'Touchscreen', 'Reverse Camera', 'Bluetooth Connectivity' ],
  sunroof: false,
  airbags: 2
 },
  _id: ObjectId('68330d5855c924ce206c4bd3'),
  maker: 'Mahindra',
  model: 'XUV500',
  fuel_type: 'Diesel',
  transmission: 'Manual',
  engine: { type: 'Turbocharged', cc: 2179, torque: '360 Nm' },
```

```
features: [ 'All-Wheel Drive', 'Navigation System', 'Cruise Control' ],
  sunroof: true,
  airbags: 6
 }
]
car_dealership> db.cars.updateOne(
... {model:"Nexon"},
... {$set:{color:"Red"}}
...)
 acknowledged: true,
 insertedId: null,
 matchedCount: 1,
 modifiedCount: 1,
 upsertedCount: 0
}
car_dealership> db.cars.find({model:"Nexon"})
[
 {
  _id: ObjectId('68330cdb55c924ce206c4bd0'),
  maker: 'Tata',
  model: 'Nexon',
  fuel_type: 'Petrol',
  transmission: 'Automatic',
  engine: { type: 'Turbocharged', cc: 1199, torque: '170 Nm' },
  features: [ 'Touchscreen', 'Reverse Camera', 'Bluetooth Connectivity' ],
  sunroof: false,
  airbags: 2,
  color: 'Red'
 }
]
```

```
car_dealership> db.cars.updateOne(
... {model:"Nexon"},
... {$push:{features:"Heated Seats"}}
...)
{
 acknowledged: true,
 insertedId: null,
 matchedCount: 1,
 modifiedCount: 1,
 upsertedCount: 0
car_dealership> db.cars.find({model:"Nexon"})
[
 {
  _id: ObjectId('68330cdb55c924ce206c4bd0'),
  maker: 'Tata',
  model: 'Nexon',
  fuel_type: 'Petrol',
  transmission: 'Automatic',
  engine: { type: 'Turbocharged', cc: 1199, torque: '170 Nm' },
  features: [
   'Touchscreen',
   'Reverse Camera',
   'Bluetooth Connectivity',
   'Heated Seats'
  ],
  sunroof: false,
  airbags: 2,
  color: 'Red'
 }
]
```

```
car_dealership> db.cars.updateOne(
...... {model:"Nexon"},
...... {$push:{features:"Heated Seats"}}
...)
Uncaught:
SyntaxError: Unexpected token (6:0)
 4 | .
 5 |
> 6 | )
  | ^
 7 |
car_dealership> db.cars.updateOne(
... {fuel_type:"Diesel"},
... {$set:{alloys:"yes"}}
...)
{
 acknowledged: true,
 insertedId: null,
 matchedCount: 1,
 modifiedCount: 1,
 upsertedCount: 0
car_dealership> db.cars.updateMany(
... {fuel_type:"Diesel"},
... {$set:{alloys:"yes"}}
...)
{
```

```
acknowledged: true,
    insertedId: null,
    matchedCount: 2,
    modifiedCount: 1,
    upsertedCount: 0
}
car_dealership> db.cars.updateOne(
... {model:"Creta"},
... {$set:{"engine.torque":"270 nm"}}
...)
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
}
car_dealership> db.cars.updateOne(
... {model:"Nexon"},
... \ \{\post: \{\post
...)
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
car_dealership> db.cars.updateOne(
... {model:"Nexon"},
```

```
... {$unset:{color:""}}
...)
{
acknowledged: true,
insertedId: null,
matchedCount: 1,
modifiedCount: 1,
upsertedCount: 0
}
car_dealership> db.cars.updateMany({},{$set:{color:"Blue"}})
acknowledged: true,
insertedId: null,
matchedCount: 5,
modifiedCount: 5,
upsertedCount: 0
car_dealership> db.cars.find()
[
{
  _id: ObjectId('68330cdb55c924ce206c4bd0'),
  maker: 'Tata',
  model: 'Nexon',
  fuel_type: 'Petrol',
  transmission: 'Automatic',
  engine: { type: 'Turbocharged', cc: 1199, torque: '170 Nm' },
  features: [
   'Touchscreen',
   'Reverse Camera',
   'Bluetooth Connectivity',
   'Heated Seats',
```

```
'wireless charging',
  'voice control'
 ],
 sunroof: false,
 airbags: 2,
 color: 'Blue'
},
 _id: ObjectId('68330d5855c924ce206c4bd1'),
 maker: 'Hyundai',
 model: 'Creta',
 fuel_type: 'Diesel',
 transmission: 'Manual',
 engine: { type: 'Naturally Aspirated', cc: 1493, torque: '270 nm' },
 features: [
  'Sunroof',
  'Leather Seats',
  'Wireless Charging',
  'Ventilated Seats',
  'Bluetooth'
 ],
 sunroof: true,
 airbags: 6,
 alloys: 'yes',
 color: 'Blue'
},
 _id: ObjectId('68330d5855c924ce206c4bd2'),
 maker: 'Maruti Suzuki',
 model: 'Baleno',
 fuel_type: 'Petrol',
```

```
transmission: 'Automatic',
 engine: { type: 'Naturally Aspirated', cc: 1197, torque: '113 Nm' },
 features: ['Projector Headlamps', 'Apple CarPlay', 'ABS'],
 sunroof: false,
 airbags: 2,
 color: 'Blue'
},
 _id: ObjectId('68330d5855c924ce206c4bd3'),
 maker: 'Mahindra',
 model: 'XUV500',
 fuel_type: 'Diesel',
 transmission: 'Manual',
 engine: { type: 'Turbocharged', cc: 2179, torque: '360 Nm' },
 features: [ 'All-Wheel Drive', 'Navigation System', 'Cruise Control' ],
 sunroof: true,
 airbags: 6,
 alloys: 'yes',
 color: 'Blue'
},
 _id: ObjectId('68330d5855c924ce206c4bd4'),
 maker: 'Honda',
 model: 'City',
 fuel_type: 'Petrol',
 transmission: 'Automatic',
 engine: { type: 'Naturally Aspirated', cc: 1498, torque: '145 Nm' },
 features: [ 'Keyless Entry', 'Auto AC', 'Multi-angle Rearview Camera'],
 sunroof: false,
 airbags: 4,
 color: 'Blue'
```

```
]
car_dealership> db.cars.updateMany(
... {model:"Venue"},
... {$set:{Maker:"Hyundai"}},
... {upsert:true}
...)
acknowledged: true,
insertedId: ObjectId('683318b12de62c4f8acc9840'),
 matchedCount: 0,
modifiedCount: 0,
upsertedCount: 1
}
car_dealership> db.cars.deleteOne({fuel_type:"Petrol"})
{ acknowledged: true, deletedCount: 1 }
car_dealership> db.cars.find()
[
{
  _id: ObjectId('68330d5855c924ce206c4bd1'),
  maker: 'Hyundai',
  model: 'Creta',
  fuel_type: 'Diesel',
  transmission: 'Manual',
  engine: { type: 'Naturally Aspirated', cc: 1493, torque: '270 nm' },
  features: [
   'Sunroof',
   'Leather Seats',
   'Wireless Charging',
```

```
'Ventilated Seats',
  'Bluetooth'
 ],
 sunroof: true,
 airbags: 6,
 alloys: 'yes',
 color: 'Blue'
},
 _id: ObjectId('68330d5855c924ce206c4bd2'),
 maker: 'Maruti Suzuki',
 model: 'Baleno',
 fuel_type: 'Petrol',
 transmission: 'Automatic',
 engine: { type: 'Naturally Aspirated', cc: 1197, torque: '113 Nm' },
 features: ['Projector Headlamps', 'Apple CarPlay', 'ABS'],
 sunroof: false,
 airbags: 2,
 color: 'Blue'
},
 _id: ObjectId('68330d5855c924ce206c4bd3'),
 maker: 'Mahindra',
 model: 'XUV500',
 fuel_type: 'Diesel',
 transmission: 'Manual',
 engine: { type: 'Turbocharged', cc: 2179, torque: '360 Nm' },
 features: ['All-Wheel Drive', 'Navigation System', 'Cruise Control'],
 sunroof: true,
 airbags: 6,
 alloys: 'yes',
```

```
color: 'Blue'
 },
 {
  _id: ObjectId('68330d5855c924ce206c4bd4'),
  maker: 'Honda',
  model: 'City',
  fuel_type: 'Petrol',
  transmission: 'Automatic',
  engine: { type: 'Naturally Aspirated', cc: 1498, torque: '145 Nm' },
  features: [ 'Keyless Entry', 'Auto AC', 'Multi-angle Rearview Camera' ],
  sunroof: false,
  airbags: 4,
  color: 'Blue'
 },
 {
  _id: ObjectId('683318b12de62c4f8acc9840'),
  model: 'Venue',
  Maker: 'Hyundai'
 }
]
car_dealership> db.cars.deleteMany({fuel_type:"Petrol"})
{ acknowledged: true, deletedCount: 2 }
```