**CREATING A DATABASE**

use student

switched to db student

**CREATING A COLLECTION**

student> db.createCollection("details");

{ ok: 1 }

student> show collections

details

**ADDING DOCUMENTS IN THE COLLECTIONS**

student> db.details.insertMany([{ "name": "yogesh", "course": "B.E Mech", "m1": 30, "m2": 40, "m3": 50, "subjects": ["HTML", "CSS", "MongoDB"], "personal": { "age": 25, "dob": new Date("jul 07,1998"), "father\_name": "siva", "mobile\_number": 9883763738, "e-mail\_id": "yogesh@gmail.com", "address": "ooty" } }, { "name": "jeeva", "course": "BAMS", "m1": 20, "m2": 30, "m2": 40, "subjects": ["HTML", "CSS", "MangoDB"], "personal": { "age": 24, "dob": new Date("aprl 09,1999"), "father\_name": "sivasamy", "mobile\_number": 9873388283, "e-mail\_id": "jeeva@gmail.com", "address": "ooty" } }, { "name": "surya", "course": "BCA", "m1": 60, "m2": 70, "m3": 80, "subjects": ["HTML", "CSS", "MangoDB"], "personal": { "age": 23, "dob": new Date("aprl 26,2000"), "father\_name": "siva", "mobile\_number": 9837648292, "e-mail\_id": "surya@gmail.con", "address": "ooty" } }, { "name": "partha", "course": "BBA", "m1": 36, "m2": 50, "m3": 70, "subjects": ["HTML", "CSS", "MangoDB"], "personal": { "age": 22, "dob": new Date("aug 10,2001"), "father\_name": "ravi", "mobile\_number": 9393837484, "e-mail\_id": "partha@gmail.com", "address": "ooty" } }, { "name": "pavithra", "course": "B.Sc fisheries", "m1": 50, "m2": 60, "m3": 74, "subjects": ["HTML", "CSS", "MangoDB"], "personal": { "age": 20, "dob": new Date("jan 10,2002"), "father\_name": "raj", "mobile\_number": 937373383, "e-mail\_id": "pavi@gmail.com", "address": "ooty" } }, { "name": "charles", "course": "Bsc computerScience", "m1": 40, "m2": 50, "m3": 80, "subjects": ["HTML", "CSS", "MangoDB"], "personal": { "age": 22, "dob": new Date("dec 3,2003"), "father\_name": "sekar", "mobile\_number": 8763546728, "e-mail\_id": "charles@gmail.com", "address": "gudalur" } }, { "name": "simbu", "course": "Mcom", "m1": 56, "m2": 84, "m3": 36, "subjects": ["HTML", "CSS", "MangoDB"], "personal": { "age": 24, "dob": new Date("jun 03,2001"), "father\_name": "rave", "mobile\_number": 8734256274, "e-mail\_id": "simbu@gmail.com", "address": "gudalur" } }, { "name": "ajay", "course": "ME", "m1": 54, "m2": 54, "m3": 65, "subjects": ["HTML", "CSS", "MangoDB"], "personal": { "age": 29, "dob": new Date("nov 25,2006"), "father\_name": "raj", "mobile\_number": 9836373389, "e-mail\_id": "ajay@gmail.com", "address": "ooty" } }, { "name": "perin", "course": "BE CSE", "m1": 23, "m2": 47, "m3": 65, "subjects": ["HTML", "CSS", "MangoDB"], "personal": { "age": 26, "dob": new Date("jan 25,2007"), "father\_name": "siva", "mobile\_number": 98363738364, "e-mail\_id": "perin@gmail.com", "address": "gudalur" } }, { "name": "sachin", "course": "B-Ed", "m1": 45, "m2": 34, "m3": 56, "subjects": ["HTML", "CSS", "MangoDB"], "personal": { "age": 26, "dob": new Date("mar 26, 2001"), "father\_name": "siva", "mobile\_number": 9835467390, "e-mail\_id": "annu@gmail.com", "address": "ooty" } }])

**FINDING THE DOCUMENTS IN THE COLLECTION**

student> db.details.find().pretty()

[

{cknowledged: true,

\_id: ObjectId("643fc1fd558a6bea334a9e76"),

name: 'yogesh',643fe0cc558a6bea334a9e80"),

course: 'B.E Mech',0cc558a6bea334a9e81"),

m1: 30,jectId("643fe0cc558a6bea334a9e82"),

m2: 40,jectId("643fe0cc558a6bea334a9e83"),

m3: 50,jectId("643fe0cc558a6bea334a9e84"),

subjects: [ 'HTML', 'CSS', 'MongoDB' ],"),

personal: {Id("643fe0cc558a6bea334a9e86"),

age: 25,tId("643fe0cc558a6bea334a9e87"),

dob: ISODate("1998-07-06T18:30:00.000Z"),

father\_name: 'siva',c558a6bea334a9e89")

mobile\_number: 9883763738,

'e-mail\_id': 'yogesh@gmail.com',

address: 'ooty'

}

},

{

\_id: ObjectId("643fc1fd558a6bea334a9e77"),

name: 'jeeva',

course: 'BAMS',

m1: 20,

m2: 40,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 24,

dob: ISODate("1999-04-08T18:30:00.000Z"),

father\_name: 'sivasamy',

mobile\_number: 9873388283,

'e-mail\_id': 'jeeva@gmail.com',

address: 'ooty'

}

},

{

\_id: ObjectId("643fc1fd558a6bea334a9e78"),

name: 'surya',

course: 'BCA',

m1: 60,

m2: 70,

m3: 80,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 23,

dob: ISODate("2000-04-25T18:30:00.000Z"),

father\_name: 'siva',

mobile\_number: 9837648292,

'e-mail\_id': 'surya@gmail.con',

address: 'ooty'

}

},

{

\_id: ObjectId("643fc1fd558a6bea334a9e79"),

name: 'partha',

course: 'BBA',

m1: 36,

m2: 50,

m3: 70,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 22,

dob: ISODate("2001-08-09T18:30:00.000Z"),

father\_name: 'ravi',

mobile\_number: 9393837484,

'e-mail\_id': 'partha@gmail.com',

address: 'ooty'

}

},

{

\_id: ObjectId("643fc1fd558a6bea334a9e7a"),

name: 'pavithra',

course: 'B.Sc fisheries',

m1: 50,

m2: 60,

m3: 74,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 20,

dob: ISODate("2002-01-09T18:30:00.000Z"),

father\_name: 'raj',

mobile\_number: 937373383,

'e-mail\_id': 'pavi@gmail.com',

address: 'ooty'

}

},

{

\_id: ObjectId("643fc1fd558a6bea334a9e7b"),

name: 'charles',

course: 'Bsc computerScience',

m1: 40,

m2: 50,

m3: 80,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 22,

dob: ISODate("2003-12-02T18:30:00.000Z"),

father\_name: 'sekar',

mobile\_number: 8763546728,

'e-mail\_id': 'charles@gmail.com',

address: 'gudalur'

}

},

{

\_id: ObjectId("643fc1fd558a6bea334a9e7c"),

name: 'simbu',

course: 'Mcom',

m1: 56,

m2: 84,

m3: 36,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 24,

dob: ISODate("2001-06-02T18:30:00.000Z"),

father\_name: 'rave',

mobile\_number: 8734256274,

'e-mail\_id': 'simbu@gmail.com',

address: 'gudalur'

}

},

{

\_id: ObjectId("643fc1fd558a6bea334a9e7d"),

name: 'ajay',

course: 'ME',

m1: 54,

m2: 54,

m3: 65,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 29,

dob: ISODate("2006-11-24T18:30:00.000Z"),

father\_name: 'raj',

mobile\_number: 9836373389,

'e-mail\_id': 'ajay@gmail.com',

address: 'ooty'

}

},

{

\_id: ObjectId("643fc1fd558a6bea334a9e7e"),

name: 'perin',

course: 'MCA',

m1: 23,

m2: 47,

m3: 65,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 26,

dob: ISODate("2007-01-24T18:30:00.000Z"),

father\_name: 'siva',

mobile\_number: 98363738364,

'e-mail\_id': 'perin@gmail.com',

address: 'gudalur'

}

},

{

\_id: ObjectId("643fc1fd558a6bea334a9e7f"),

name: 'ammu',

course: 'B-Ed',

m1: 45,

m2: 34,

m3: 56,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 26,

dob: ISODate("2001-03-25T18:30:00.000Z"),

father\_name: 'siva',

mobile\_number: 9835467390,

'e-mail\_id': 'annu@gmail.com',

address: 'ooty'

}

},

{

\_id: ObjectId("643fe0cc558a6bea334a9e80"),

name: 'yogesh',

course: 'B.E Mech',

m1: 30,

m2: 40,

m3: 50,

subjects: [ 'HTML', 'CSS', 'MongoDB' ],

personal: {

age: 25,

dob: ISODate("1998-07-06T18:30:00.000Z"),

father\_name: 'siva',

mobile\_number: 9883763738,

'e-mail\_id': 'yogesh@gmail.com',

address: 'ooty'

}

},

{

\_id: ObjectId("643fe0cc558a6bea334a9e81"),

name: 'jeeva',

course: 'BAMS',

m1: 20,

m2: 40,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 24,

dob: ISODate("1999-04-08T18:30:00.000Z"),

father\_name: 'sivasamy',

mobile\_number: 9873388283,

'e-mail\_id': 'jeeva@gmail.com',

address: 'ooty'

}

},

{

\_id: ObjectId("643fe0cc558a6bea334a9e82"),

name: 'surya',

course: 'BCA',

m1: 60,

m2: 70,

m3: 80,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 23,

dob: ISODate("2000-04-25T18:30:00.000Z"),

father\_name: 'siva',

mobile\_number: 9837648292,

'e-mail\_id': 'surya@gmail.con',

address: 'ooty'

}

},

{

\_id: ObjectId("643fe0cc558a6bea334a9e83"),

name: 'partha',

course: 'BBA',

m1: 36,

m2: 50,

m3: 70,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 22,

dob: ISODate("2001-08-09T18:30:00.000Z"),

father\_name: 'ravi',

mobile\_number: 9393837484,

'e-mail\_id': 'partha@gmail.com',

address: 'ooty'

}

},

{

\_id: ObjectId("643fe0cc558a6bea334a9e84"),

name: 'pavithra',

course: 'B.Sc fisheries',

m1: 50,

m2: 60,

m3: 74,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 20,

dob: ISODate("2002-01-09T18:30:00.000Z"),

father\_name: 'raj',

mobile\_number: 937373383,

'e-mail\_id': 'pavi@gmail.com',

address: 'ooty'

}

},

{

\_id: ObjectId("643fe0cc558a6bea334a9e85"),

name: 'charles',

course: 'Bsc computerScience',

m1: 40,

m2: 50,

m3: 80,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 22,

dob: ISODate("2003-12-02T18:30:00.000Z"),

father\_name: 'sekar',

mobile\_number: 8763546728,

'e-mail\_id': 'charles@gmail.com',

address: 'gudalur'

}

},

{

\_id: ObjectId("643fe0cc558a6bea334a9e86"),

name: 'simbu',

course: 'Mcom',

m1: 56,

m2: 84,

m3: 36,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 24,

dob: ISODate("2001-06-02T18:30:00.000Z"),

father\_name: 'rave',

mobile\_number: 8734256274,

'e-mail\_id': 'simbu@gmail.com',

address: 'gudalur'

}

},

{

\_id: ObjectId("643fe0cc558a6bea334a9e87"),

name: 'ajay',

course: 'ME',

m1: 54,

m2: 54,

m3: 65,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 29,

dob: ISODate("2006-11-24T18:30:00.000Z"),

father\_name: 'raj',

mobile\_number: 9836373389,

'e-mail\_id': 'ajay@gmail.com',

address: 'ooty'

}

},

{

\_id: ObjectId("643fe0cc558a6bea334a9e88"),

name: 'perin',

course: 'BE CSE',

m1: 23,

m2: 47,

m3: 65,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 26,

dob: ISODate("2007-01-24T18:30:00.000Z"),

father\_name: 'siva',

mobile\_number: 98363738364,

'e-mail\_id': 'perin@gmail.com',

address: 'gudalur'

}

},

{

\_id: ObjectId("643fe0cc558a6bea334a9e89"),

name: 'sachin',

course: 'B-Ed',

m1: 45,

m2: 34,

m3: 56,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 26,

dob: ISODate("2001-03-25T18:30:00.000Z"),

father\_name: 'siva',

mobile\_number: 9835467390,

'e-mail\_id': 'annu@gmail.com',

address: 'ooty'

}

}

]

4. Find first documents in the collection of the student.

**FINDING THE FIRST DOCUMENT OF THE COLLECTION**

student> db.details.findOne()

{

\_id: ObjectId("643fc1fd558a6bea334a9e76"),

name: 'yogesh',

course: 'B.E Mech',

m1: 30,

m2: 40,

m3: 50,

subjects: [ 'HTML', 'CSS', 'MongoDB' ],

personal: {

age: 25,

dob: ISODate("1998-07-06T18:30:00.000Z"),

father\_name: 'siva',

mobile\_number: 9883763738,

'e-mail\_id': 'yogesh@gmail.com',

address: 'ooty'

}

}

Retrieve student's documents whose student course is B.E CSE.

**RETRIVING STUDENTS DOCUMENTS WHOSE STUDENT COURSE IS BE CSE**

student> db.details.find({"course":"BE CSE"})

[ncaught:

{taxError: Unexpected token, expected "," (1:24)

\_id: ObjectId("643fe0cc558a6bea334a9e88"),

name: 'perin',ind("course":"BE CSE")

course: 'BE CSE', ^

m1: 23,

m2: 47,

m3: 65,

subjects: [ 'HTML', 'CSS', 'MangoDB' ],

personal: {

age: 26,

dob: ISODate("2007-01-24T18:30:00.000Z"),

father\_name: 'siva',

mobile\_number: 98363738364,

'e-mail\_id': 'perin@gmail.com',

address: 'gudalur'

}

}

]

**6. Retrieving only student name fields with the help of projection.**

student> db.details.find({},{"name":1,"\_id":0})

[

{ name: 'jeeva' },

{ name: 'partha' },

{ name: 'charles' },

{ name: 'ajay' },

{ name: 'ammu' },

{ name: 'jeeva' },

{ name: 'partha' },

{ name: 'charles' },

{ name: 'ajay' },

{ name: 'sachin' }

]

**7. Retrieving student name, course, mobile number fields with the help of projection.**

student> db.details.find({},{"name":1,"course":1,"mobile\_number":1,"\_id":0})

[

{ name: 'yogesh', course: 'B.E Mech' },

{ name: 'jeeva', course: 'BAMS' },

{ name: 'surya', course: 'BCA' },

{ name: 'partha', course: 'BBA' },

{ name: 'pavithra', course: 'B.Sc fisheries' },

{ name: 'charles', course: 'Bsc computerScience' },

{ name: 'simbu', course: 'Mcom' },

{ name: 'ajay', course: 'ME' },

{ name: 'perin', course: 'BE CSE' },

{ name: 'sachin', course: 'B-Ed' }

]

**8.Retrieving only student name whose m1 is greater than 70.**

student> db.details.find({"m1":{"$gt":70}},{"name":1,"\_id":0})

[ { name: 'surya' }]

**9.Retrieve only student name whose m2 is less than 70.**

student> db.details.find({"m2":{"$lt":70}},{"name":1,"\_id":0})

[

{ name: 'yogesh' },

{ name: 'partha' },

{ name: 'charles' },

{ name: 'perin' },

{ name: 'yogesh' },

{ name: 'partha' },

{ name: 'charles' },

{ name: 'perin' },

0**.Retrieve only student name whose name equal to "Sachin".**

student> db.details.find({"name":{"$eq":"sachin"}},{"name":1,"\_id":0})

[ { name: 'sachin' } ]

**1.Retrieve only student name whose name not equal to "Sachin".**

student> db.details.find({"name":{"$ne":"sachin"}},{"name":1,"\_id":0})

[

{ name: 'yogesh' },

{ name: 'surya' },

{ name: 'pavithra' },

{ name: 'simbu' },

{ name: 'perin' },

{ name: 'yogesh' },

{ name: 'surya' },

{ name: 'pavithra' },

{ name: 'simbu' },

{ name: 'perin' }

]