> db.students.insert([

{"name" : "Midhu", "subject" :"science", "marks" : 68},

{"name" : "Midhu", "subject" :"sports", "marks" : 77},

{"name" : "Midhu", "subject" :"maths", "marks" : 98},

{"name" : "Midhu", "subject" :"sports", "marks" : 77},

{"name" : "Akhil", "subject" :"science", "marks" : 67},

{"name" : "Akhil", "subject" :"maths", "marks" : 87},

{"name" : "Akhil", "subject" :"sports", "marks" : 89},

{"name" : "Anish", "subject" :"science", "marks" : 67},

{"name" : "Anish", "subject" :"maths", "marks" : 78},

{"name" : "Anish", "subject" :"sports", "marks" : 90}

])

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

[

{

\_id: ObjectId("65320f834f474256ac59e0ba"),

name: 'Midhu',

subject: 'science',

marks: 68

},

{

\_id: ObjectId("65320fa24f474256ac59e0bb"),

name: 'Midhu',

subject: 'science',

marks: 68

},

{

\_id: ObjectId("65320fa24f474256ac59e0bc"),

name: 'Midhu',

subject: 'sports',

marks: 77

},

{

\_id: ObjectId("65320fa24f474256ac59e0bd"),

name: 'Midhu',

subject: 'maths',

marks: 98

},

{

\_id: ObjectId("65320fa24f474256ac59e0be"),

name: 'Midhu',

subject: 'sports',

marks: 77

},

{

\_id: ObjectId("65320fa24f474256ac59e0bf"),

name: 'Akhil',

subject: 'science',

marks: 67

},

{

\_id: ObjectId("65320fa24f474256ac59e0c0"),

name: 'Akhil',

subject: 'maths',

marks: 87

},

{

\_id: ObjectId("65320fa24f474256ac59e0c1"),

name: 'Akhil',

subject: 'sports',

marks: 89

},

{

\_id: ObjectId("65320fa24f474256ac59e0c2"),

name: 'Anish',

subject: 'science',

marks: 67

},

{

\_id: ObjectId("65320fa24f474256ac59e0c3"),

name: 'Anish',

subject: 'maths',

marks: 78

},

{

\_id: ObjectId("65320fa24f474256ac59e0c4"),

name: 'Anish',

subject: 'sports',

marks: 90

}

]

**1) To find average marks for each student.**

> var map = function(){emit(this.name, this.marks)}

> var reduce = function(name, marks){return Array.avg(marks)}

> db.students.mapReduce(map, reduce, {out: "OUTPUT1"})

> db.OUTPUT1.find()

[

{ \_id: 'Midhu', value: 77.6 },

{ \_id: 'Anish', value: 78.33333333333333 },

{ \_id: 'Akhil', value: 81 }

]

**2) To find total marks for each students.**

> var map = function(){emit(this.name, this.marks)}

> var reduce = function(name, marks){return Array.sum(marks)}

> db.students.mapReduce(map, reduce, {out: "OUTPUT2"})

> db.OUTPUT2.find()

[

{ \_id: 'Akhil', value: 243 },

{ \_id: 'Anish', value: 235 },

{ \_id: 'Midhu', value: 388 }

]