

Map Reduce



Map-reduce



- Map-reduce is a data processing paradigm for condensing large volumes of data into useful aggregated results.
- MongoDB uses map-Reduce command for map-reduce operations.
- Map-Reduce is generally used for processing large data sets.
- Its commands allows you to run map-reduce aggregation operations over a collection.

Map-reduce



Student

```
Stud id: "A123",
Fees: 5000,
Section: "A" }
 Stud id: "A123",
Fees: 2500.
Section: "A" }
  Stud_id: "B212",
Fees: 3000,
Section: "A" }
  Stud id: "A123",
Fees: 2000,
Section: "D" }
```

```
query
```

db.student.mapReduce(

{ Stud id: "A123",

{ Stud id: "A123",

{ Stud_id: "B212",

Fees: 5000.

Fees: 2500,

Fees: 3000.

Section: "A" }

Section: "A" }

Section: "A" }

```
function() {emit (this.stud id, this.fees); },
function(key, values) {return Array.sum(values)},
{query:{Section:"A"}, out:"fees total"})
                                             fees total
                                    reduce
                                                id: "A123".
                                                Value: 7500
         {"A123":[5000,2500]}
map
          {"B212":3000}
                                                id: "B212",
                                                Value: 3000
```



Hends-On

