

Aggregation Pipeline



Aggregation Pipeline



It's a framework for performing aggregation tasks, modeled on the concept of data processing pipelines.

Using this framework, MongoDB passes the documents of a single collection through a pipeline.

The pipeline transforms the documents into aggregated results, and is accessed through the aggregate database command.

Aggregation pipeline basically has two phases:

\$match and \$group

Aggregation Pipeline



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" }
```

```
db.student.aggregate([{$match:{Section:"A"}},
                {$group:{ id: "$stud id", Total:{$sum: "$Fees"}}}])
               { Stud id: "A123",
               Fees: 5000,
               Section: "A" }
                                                    id: "A123",
                                                    Total:7500
 Smatch
                                       Sgroup
               { Stud id: "A123",
               Fees: 2500,
               Section: "A" }
                                                     id: "B212",
                                                    Total:3000
               { Stud id: "B212",
               Fees: 3000,
               Section: "A" }
```



Hends-On



Pipeline



Pipeline means the possibility to execute an operation on some input and use the output as the input for the next command and so on.

There is a set of possible stages and each of those is taken a set of documents as an input and is producing a resulting set of documents.