

In this lecture, we will discuss...

✧ \$project



\$project

- ✧ **Reshapes** a document stream by renaming, adding, or removing fields
- ✧ Commonly used to **create** computed values or sub-documents



\$project – Include Specific Fields

✧ `db[:zips].find.aggregate([{: $project=>{
 :_id=>1, :city=>1, :state=>1, :pop=>1
}},{: $limit=>5}])).each {|r| pp r}`

- Displays all four fields (_id, city, state, pop)
- `:<field> => 1` OR `:<field> => true` - specifies the inclusion of the field



\$project – Exclude Specific Fields

✧ `db[:zip].find.aggregate(
 [{:$project=>{ :_id=>0, :state=>1,
 :pop=>1 }}, {:$limit=>5}]).each {|r|
 pp r}`

- Displays two fields (state and population)
- `_id` is excluded



\$project – Alter Data

```
✧ db[:zipcodes].find.aggregate(  
  [{:$project=>{:_id=>0,  
    :state=>{ :$toLower=>' $state' },  
    :pop=>1  }}, {:$limit=>5}]]).each {|r|  
  pp r}
```

- State in lower case



Summary

- ✧ Passes along the documents with only the specified fields to the next stage in the pipeline
- ✧ The specified fields can be existing fields from the input documents or newly computed fields

What's New?

- ✧ \$group

