

# Workshop



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# Data

data.json

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```
1 { "_id" : 1, "domainName" : "test1.com", "hosting" : "hostgator.com" }
2 { "_id" : 2, "domainName" : "test2.com", "hosting" : "aws.amazon.com" }
3 { "_id" : 3, "domainName" : "test3.com", "hosting" : "aws.amazon.com" }
4 { "_id" : 4, "domainName" : "test4.com", "hosting" : "hostgator.com" }
5 { "_id" : 5, "domainName" : "test5.com", "hosting" : "aws.amazon.com" }
6 { "_id" : 6, "domainName" : "test6.com", "hosting" : "cloud.google.com" }
7 { "_id" : 7, "domainName" : "test7.com", "hosting" : "aws.amazon.com" }
8 { "_id" : 8, "domainName" : "test8.com", "hosting" : "hostgator.com" }
9 { "_id" : 9, "domainName" : "test9.com", "hosting" : "cloud.google.com" }
10 { "_id" : 10, "domainName" : "test10.com", "hosting" : "godaddy.com" }
```



# Import data

```
$mongoimport -d web  
-c website  
--file website/data.json
```



# Group by hosting

```
>db.website.aggregate(  
  { $group: { _id: "$hosting" } }  
)
```



# Group by hosting and count

```
db.website.aggregate(  
  { $group: {  
    _id: "$hosting",  
    total: {$sum:1}  
  }  
})
```



# With sorting (descending)

```
db.website.aggregate(  
  { $group: {  
    _id: "$hosting",  
    total: {$sum:1}  
  }  
},  
  { $sort: { total: -1 } }  
)
```



# With sorting (ascending)

```
db.website.aggregate(  
  { $group: {  
    _id: "$hosting",  
    total: {$sum:1}  
  }  
},  
  { $sort: { total: 1 } }  
)
```



# Filter data in aggregation ?

```
db.website.aggregate(  
  { $group: {  
    _id: "$hosting",  
    total: {$sum:1}  
  }  
},  
  { $sort: { total: 1 } }  
)
```





# Export result to files

1. Query data
2. Save data to new collection
3. Export data with mongoexport



# Export data to JSON

```
$mongoexport -d web  
              -c my_data  
              -f _id,total  
              -o group.json
```



# Export data to CSV

```
$mongoexport -d web  
-c my_data  
-f _id,total  
-o group.csv  
--csv
```



# Resources

<https://github.com/up1/course-introduction-mongodb>

